

STIC-Biotech/ChemLib

2/25/05

145213

ME

From: Whiteman, Brian  
Sent: Tuesday, February 15, 2005 10:33 AM  
To: STIC-Biotech/ChemLib  
Subject: seq search

09/729,264 EFD 11/28/00  
Welcher et al.

Please search seq id nos: 1, 3, and 5 against us patent and us patent application databases.

Please search seq id nos: 2, 4, and 6 against us patent and us patent application databases.

Thank you

Brian Whiteman  
Remsen, 2D14  
mail box 2C18  
Patent Examiner - Art Unit 1635  
United States Patent and Trademark Office  
(571) 272-0764

\*\*\*\*\*

STAFF USE ONLY

Searcher: \_\_\_\_\_  
Searcher Phone: 2- \_\_\_\_\_  
Date Searcher Picked up: \_\_\_\_\_  
Date Completed: \_\_\_\_\_  
Searcher Prep/Rev. Time: \_\_\_\_\_  
Online Time: \_\_\_\_\_

\*\*\*\*\*

Type of Search

NA Sequence: # \_\_\_\_\_  
AA Sequence: # \_\_\_\_\_  
Structure: # \_\_\_\_\_  
Bibliographic: \_\_\_\_\_  
Litigation: \_\_\_\_\_  
Patent Family: \_\_\_\_\_  
Other: \_\_\_\_\_

\*\*\*\*\*

Vendors and cost where applicable

STN: \_\_\_\_\_  
DIALOG: \_\_\_\_\_  
QUESTEL/ORBIT: \_\_\_\_\_  
LEXIS/NEXIS: \_\_\_\_\_  
SEQUENCE SYSTEM: \_\_\_\_\_  
WWW/Internet: \_\_\_\_\_  
Other(Specify): \_\_\_\_\_

**This Page Blank (uspto)**

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 25, 2005, 00:36:18 ; Search time 825.091 Seconds  
(without alignments)  
8438.363 Million cell updates/sec

Title: US-09-729-264-1

Perfect score: 1175

Sequence: 1 ctgctgcccatctgataa.....gtatacaactgtagtag 1175

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 5394803 seqs, 2962729879 residues

Total number of hits satisfying chosen parameters: 10789606

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database : Published Applications NA.\*

1: /cgn2\_6/ptodata/1/pubpna/US07\_PUBCOMB.seq.\*  
2: /cgn2\_6/ptodata/1/pubpna/PCT\_NEW\_PUB.seq.\*  
3: /cgn2\_6/ptodata/1/pubpna/US06\_NEW\_PUB.seq.\*  
4: /cgn2\_6/ptodata/1/pubpna/US07\_NEW\_PUB.seq.\*  
5: /cgn2\_6/ptodata/1/pubpna/US07\_NEW\_PUB.seq.\*  
6: /cgn2\_6/ptodata/1/pubpna/PCTUS\_PUBCOMB.seq.\*  
7: /cgn2\_6/ptodata/1/pubpna/US08\_NEW\_PUB.seq.\*  
8: /cgn2\_6/ptodata/1/pubpna/US08\_PUBCOMB.seq.\*  
9: /cgn2\_6/ptodata/1/pubpna/US09\_PUBCOMB.seq.\*  
10: /cgn2\_6/ptodata/1/pubpna/US09\_PUBCOMB.seq.\*  
11: /cgn2\_6/ptodata/1/pubpna/US09\_PUBCOMB.seq.\*  
12: /cgn2\_6/ptodata/1/pubpna/US09\_NEW\_PUB.seq.\*  
13: /cgn2\_6/ptodata/1/pubpna/US10\_PUBCOMB.seq.\*  
14: /cgn2\_6/ptodata/1/pubpna/US10\_PUBCOMB.seq.\*  
15: /cgn2\_6/ptodata/1/pubpna/US10\_PUBCOMB.seq.\*  
16: /cgn2\_6/ptodata/1/pubpna/US10\_PUBCOMB.seq.\*  
17: /cgn2\_6/ptodata/1/pubpna/US10\_PUBCOMB.seq.\*  
18: /cgn2\_6/ptodata/1/pubpna/US10\_PUBCOMB.seq.\*  
19: /cgn2\_6/ptodata/1/pubpna/US10\_NEW\_PUB.seq.\*  
20: /cgn2\_6/ptodata/1/pubpna/US11\_NEW\_PUB.seq.\*  
21: /cgn2\_6/ptodata/1/pubpna/US60\_NEW\_PUB.seq.\*  
22: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1125.4	95.8	2051	US-10-104-047-1104	Sequence 1104, Ap
2	269	22.9	474	US-09-918-995-3342	Sequence 3342, Ap
3	190.4	16.2	401	US-09-864-761-16305	Sequence 16305, A
4	142	12.1	398	US-09-983-965-4945	Sequence 4945, Ap
5	50.6	4.3	775	US-10-424-599-16675	Sequence 16675, A
6	47.8	4.1	381	US-10-357-930-54485	Sequence 54485, A
7	47.6	4.1	273	US-10-384-107-1	Sequence 1, Appl1
8	46	3.9	2706	US-10-620-514-4	Sequence 4, Appl1
9	46	3.9	3577	US-10-008-739A-1	Sequence 1, Appl1
10	46	3.9	11004	US-10-620-514-1	Sequence 1, Appl1
11	45.4	3.9	542	US-10-425-115-122846	Sequence 122846, A

C 12	45	3.8	1097	17	US-10-424-599-10899	Sequence 10899, A
C 13	45	3.8	1511	18	US-10-437-963-61590	Sequence 61590, A
C 14	44.8	3.8	616	17	US-10-242-535A-1932	Sequence 1932, Ap
C 15	44.8	3.8	616	17	US-10-085-783A-1932	Sequence 1932, Ap
C 16	44.8	3.8	1310	9	US-09-849-243-13	Sequence 13, Appl1
C 17	44.8	3.8	1876	17	US-10-388-360-336	Sequence 336, App
C 18	44.8	3.8	2614	10	US-09-822-846-491	Sequence 491, App
C 19	44.8	3.8	3263	9	US-09-849-243-15	Sequence 15, Appl1
C 20	44.8	3.8	4286	9	US-09-849-243-14	Sequence 14, Appl1
C 21	44.8	3.8	5085	14	US-10-198-846-9854	Sequence 9854, Ap
C 22	44.8	3.8	5419	18	US-10-479-546-3	Sequence 3, Appl1
C 23	44.8	3.8	6604	9	US-09-880-107-1748	Sequence 1748, Ap
C 24	44.6	3.8	1423	18	US-10-489-372-44	Sequence 44, Appl1
C 25	44.4	3.8	199	18	US-10-674-124A-7619	Sequence 7619, Ap
C 26	44.4	3.8	376	18	US-10-674-124A-23575	Sequence 23575, A
C 27	44.4	3.8	513	18	US-10-357-930-47995	Sequence 47995, A
C 28	44.2	3.8	405	18	US-10-357-930-56357	Sequence 56357, A
C 29	44.2	3.8	1133	18	US-10-425-115-59679	Sequence 59679, A
C 30	44.2	3.8	1369	18	US-10-425-115-76568	Sequence 76568, A
C 31	44.2	3.8	2568	18	US-10-425-115-85301	Sequence 85301, A
C 32	44.2	3.8	2790	16	US-10-029-386-22626	Sequence 22626, A
C 33	44.2	3.8	7568	17	US-10-133-937-60	Sequence 60, Appl1
C 34	44.2	3.8	7568	17	US-10-159-563-60	Sequence 60, Appl1
C 35	44.2	3.8	7568	18	US-10-723-860-2203	Sequence 2203, Ap
C 36	44	3.7	299	10	US-09-814-353-4844	Sequence 4844, Ap
C 37	44	3.7	299	10	US-09-814-353-11141	Sequence 11141, A
C 38	44	3.7	385	10	US-09-814-353-5368	Sequence 5368, Ap
C 39	44	3.7	385	10	US-09-814-353-11655	Sequence 11655, A
C 40	44	3.7	455	9	US-09-728-444-151	Sequence 151, App
C 41	44	3.7	643	18	US-10-425-115-62705	Sequence 62705, A
C 42	43.8	3.7	1810	17	US-10-425-114-11473	Sequence 11473, A
C 43	43.8	3.7	1825	17	US-10-424-559-91736	Sequence 91736, A
C 44	43.8	3.7	88232	13	US-10-087-152-1699	Sequence 1699, Ap
C 45	43.6	3.7	405	18	US-10-425-115-9135	Sequence 9135, Ap

#### ALIGNMENTS

RESULT 1  
US-10-104-047-1104  
; Sequence 1104, Application US/10104047  
; Publication No. US20030236392A1  
; GENERAL INFORMATION:  
; APPLICANT: HELIX RESEARCH INSTITUTE  
; TITLE OF INVENTION: No. US20030236392A1 full length cDNA  
; FILE REFERENCE: H1-A0105  
; CURRENT APPLICATION NUMBER: US/10/104, 047  
; CURRENT FILING DATE: 2002-03-25  
; PRIOR APPLICATION NUMBER:  
; PRIOR FILING DATE:  
; NUMBER OF SEQ ID NOS: 4096  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1104  
; LENGTH: 2051  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-104-047-1104

Query Match	95.8%	Score 1125.4	DB 17	Length 2051
Best Local Similarity	99.9%	Pred No. 0		
Matches 1126	Conservative 0	Mismatches 1	Indels 0	Gaps 0
QY	49	ACGGTTCTGGTCTGTGTAATGAAGTCAAGAGCCGCCAGATGCAAGTCTGAAGG	108	
DB	201	ACGGTTCTGGTCTGTGTAATGAAGTCAAGAGCCGCCAGATGCAAGTCTGAAGG	260	
QY	109	GCTCCAGGCTGCTTCACTGACCGTCTCCAGGCTGGAAGTCAATCATAGTGGCTC	168	
DB	261	GCTCCAGGCTGCTTCACTGACCGTCTCCAGGCTGGAAGTCAATCATAGTGGCTC	320	
QY	169	TCAGTACATGTTGGTGTAAAGCTGAGGCCATGAGCCATCATCAACCAATGACCGCT	228	

```

Db 321 TCAGTGAATGATGCTGCTGAAGCCGTGACGAGCCCATGAGACCCATCATCAACCAATGACCGCT 380
QY 229 TCACCTCTCAGAGAGTACGACACGAGGCGGAACTTCACTCGGAGATGATCATCCACATG 288
Db 381 TCACCTCTCAGAGAGTACGACACGAGGCGGAACTTCACTCGGAGATGATCATCCACATG 440
QY 289 TGAAGCCCAAGTATTCGGGGAAACATCAATGACAGCTTCAGAAAGTGGCTGATGAT 348
Db 441 TGAAGCCCAAGTATTCGGGGAAACATCAATGACAGCTTCAGAAAGTGGCTGATGAT 500
QY 349 CTGCTTACCTTACCGTCCAGTTATGAGAGAGCTGTTCATTTCCAGTTATCTGTAG 408
Db 501 CTGCTTACCTTACCGTCCAGTTATGAGAGAGCTGTTCATTTCCAGTTATCTGTAG 560
QY 409 TCGTGAAGTAAAGTAACTTGTGAAGTAACTTGTGAAGTAACTTGTGAAGTAACTTGTGA 468
Db 561 TCGTGAAGTAAAGTAACTTGTGAAGTAACTTGTGAAGTAACTTGTGAAGTAACTTGTGA 620
QY 469 ATATTTCTGGAGAGCTCGTCTCGTGTGACAGCCATTCAGCTATTTATTTTGTTCGGAGC 528
Db 621 ATATTTCTGGAGAGCTCGTCTCGTGTGACAGCCATTCAGCTATTTATTTTGTTCGGAGC 680
QY 529 CCAGCCAGCTTCCAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 588
Db 681 CCAGCCAGCTTCCAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 740
QY 589 TGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 648
Db 741 TGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 800
QY 649 CTGATGATCGGTGCTCCCAAGACACTGAGAGTGTATTAATATTCAGAGTATTAATCA 708
Db 801 CTGATGATCGGTGCTCCCAAGACACTGAGAGTGTATTAATATTCAGAGTATTAATCA 860
QY 709 GTTACGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 768
Db 861 GTTACGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 920
QY 769 GCAACAGCTTCTGACGCGGAGGTGACTCTTAACAATGCTGCTGCTGCTGCTGCTGCTGCT 828
Db 921 GCAACAGCTTCTGACGCGGAGGTGACTCTTAACAATGCTGCTGCTGCTGCTGCTGCTGCT 980
QY 829 GTTGTGTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 888
Db 981 GTTGTGTGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1040
QY 889 TTGATATTCATTTCAAAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 948
Db 1041 TTGATATTCATTTCAAAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1100
QY 949 AAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1008
Db 1101 AAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1160
QY 1009 CTCTCCCTCCCAAACTCTGTGATCTGATGATCTGATGATCTGATGATCTGATGATCTG 1068
Db 1161 CTCTCCCTCCCAAACTCTGTGATCTGATGATCTGATGATCTGATGATCTGATGATCTG 1220
QY 1069 CTCTCCCAAGAGGGGCTGATCAAGTCAAGCCAGCCAGCAAGTCAATCCAGGCTTCTT 1128
Db 1221 CTCTCCCAAGAGGGGCTGATCAAGTCAAGCCAGCCAGCAAGTCAATCCAGGCTTCTT 1280
QY 1129 TTAATCTGAGCAAGTCTGAGAAAGTCAAGTAAACAATCAATCAATCAATCAATCAATCA 1175
Db 1281 TTAATCTGAGCAAGTCTGAGAAAGTCAAGTAAACAATCAATCAATCAATCAATCAATCA 1327

```

## RESULT 2

```

US-09-918-995-3342
; Sequence 3342, Application US/09918995
; Publication No. US20030073623A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.

```

```

; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
; FILE REFERENCE: FROM VARIOUS CDNA LIBRARIES
; CURRENT APPLICATION NUMBER: US/09/918,995
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US/09/235,076
; NUMBER OF SEQ ID NOS: 38054
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3342
; LENGTH: 474
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(474)
; OTHER INFORMATION: n = A,T,C or G
US-09-918-995-3342

```

```

Query Match 22.9%; Score 269; DB 10; Length 474;
Best Local Similarity 98.2%; Pred. No. 1.3e-68;
Matches 272; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

```

```

QY 899 ATTCCAAAGAAATCTGAAAAAGAGAGACAAACAAAGAACTGAGACAGAAAGTGGAAA 958
Db 54 ACTTTTAAAGAAATCTGAAAAAGAGAGACAAACAAAGAACTGAGACAGAAAGTGGAAA 113
QY 959 TGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1018
Db 114 TGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 173
QY 1019 CAAATCTGTGAATTCAGATGATCTGACAAAGAAACAGATGAGTGGCCCTCCACACA 1078
Db 174 CAAATCTGTGAATTCAGATGATCTGACAAAGAAACAGATGAGTGGCCCTCCACACA 233
QY 1079 GCGGGCTGATCAACGTCACCCAGGCGACAGTCAATCCAGGCTTCTTTTAACTGGC 1138
Db 234 GCGGGCTGATCAACGTCACCCAGGCGACAGTCAATCCAGGCTTCTTTTAACTGGC 293
QY 1139 CAGTCTGAGAAAGTCAATATCAACTGTAGTATAG 1175
Db 294 CAGTCTGAGAAAGTCAATATCAACTGTAGTATAG 330

```

## RESULT 3

```

US-09-864-761-16305
; Sequence 16305, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aecmics-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263,6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664

```

```

RESULT 5
US-10-424-599-16675/c
; Sequence 16675, Application US/10424599
; Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J
APPLICANT: Kovalic David K
APPLICANT: Zhou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With Plant Improvement
FILE REFERENCE: 38-21(53223)B
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 16675
LENGTH: 775
TYPE: DNA
ORGANISM: Glycine max
FEATURES:
OTHER INFORMATION: Clone ID: PAT_MRT3847_115063C.1
US-10-424-599-16675

Query Match      4.3%; Score 50.6; DB 17; Length 775;
Best Local Similarity 73.0%; Pred. No. 0.00068;
Matches 65; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

Oy       808   GCCTGCTGTGGCGCCGCCTGTTGTTTGAGTCAACTGCTGCCGTTGTTGTCCT    867
          ||| | | | | | | | | | | | | | | | | | | | | | |
Db       710   GTTCTCTGTCTGTCTGTCTGTATTGTITIGTAGTGTCTGTCTGTCTGTCTGTCTGTCTGTATTTGTTGCT    651

Oy       868   GCTGTAGAAGAAAAAGAGATTTCGTAAT     896
          ||| | | | | | | | | | | | | | | | |
Db       650   GCTGTCTGTCTGTCTGTGAACCCCTTTGTAAT    622


RESULT 6
US-10-357-930-54485
; Sequence 54485, Application US/10357930
; Publication No. US20040259086A1
GENERAL INFORMATION:
APPLICANT: Schlegel, Robert
APPLICANT: Endege, Wilson
APPLICANT: Monahan, John
TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
```

```

; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF
; FILE REFERENCE: MRI-007BCN HUMAN PROSTATE CANCER
; CURRENT APPLICATION NUMBER: US/10/357,930
; PRIOR FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: 09/785,276
; PRIOR FILING DATE: 2003-02-16
; PRIOR APPLICATION NUMBER: 60/183,319
; PRIOR FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: 60/189,862
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/207,454
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: 60/211,314
; PRIOR FILING DATE: 2000-06-09
; PRIOR APPLICATION NUMBER: 60/219,007
; PRIOR FILING DATE: 2000-07-18
; PRIOR APPLICATION NUMBER: 60/255,281
; NUMBER OF SEQ ID NOS: 2000-12-13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54485
; LENGTH: 381
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 28
; OTHER INFORMATION: n = A,T,C or G
; US-10-357-930-54485

Query Match          4.1%; Score 47.8; DB 18; Length 381;
Best Local Similarity 51.7%; Pred.No. 0.003;
Matches 109; Conservative 0; Mismatches 102; Indels 0; Gaps 0;

QY      867 TCGTGTAGAAAGAAAGAGATTTCGATTCATTTCAAAAGAAATCTGAAAGAGAG 926
DB      138 TGGTGAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAA 197
QY      927 ACAACAAAGAAACTGAGACAGCAAGAGTGAATGAAATCCGGCTACATTCAGATGAA 986
DB      198 AAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAA 257
QY      987 CAAAGACACAGACACCGCTTCTCTCCCTCCCAATCCTGATTCAGATCTGAA 1046
DB      258 AAAAAAAGACACAGACAGATGCCCCCCCCCCCCGGGGAACCCCATACCCAC 317
QY      1047 CAAAGAAACAGTAGCTGTGGCCCTCTCTACG 1077
DB      318 CCAACAAATTTAACCCCTCCCTCCCTCCCTCC 348

RESULT 7
; Sequence 1, Application US/10384107
; Publication No. US20050003477A1
; GENERAL INFORMATION:
; APPLICANT: The Trustees of Columbia University
; APPLICANT: Kandel, Eric R.
; APPLICANT: Santoro, Bina
; APPLICANT: Bartsch, Dusan
; APPLICANT: Siegelbaum, Steven
; APPLICANT: Tibbs, Gareth
; APPLICANT: Grant, Seth
; TITLE OF INVENTION: Pacemaker Channel Proteins and Uses Thereof
; FILE REFERENCE: 0575/54806-B
; CURRENT FILING DATE: 2003-03-06
; PRIOR APPLICATION NUMBER: US/10/384,107
; PRIOR FILING DATE: 1997-12-23
; NUMBER OF SEQ ID NOS: 60
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1

```

```

; LENGTH: 2733
; TYPE: DNA
; ORGANISM: mouse
; US-10-384-107-1

Query Match          4.1%; Score 47.6; DB 18; Length 2733;
Best Local Similarity 75.6%; Pred.No. 0.011;
Matches 59; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

QY      808 GCTGCTGCTGTCGCCCGCTGTTGTGTGCTGCACTGCTGCGGTTGTTTCT 867
DB      2284 GCTGCTGCTGCTGCTGCTGTTGTGTGTGCTGCTGCTGCTGCTGCTGCT 2225
QY      868 GCTGTAGAGAAAAAG 885
DB      2224 GCTGCTGCTGAGTCTGAG 2207

RESULT 8
; Sequence 4, Application US/10620514
; Publication No. US20040068762A1
; GENERAL INFORMATION:
; APPLICANT: Altar, Ricardo M.
; APPLICANT: Bol, David K.
; APPLICANT: Gotthardt, Marco
; APPLICANT: Mookhtiar, Kasim
; APPLICANT: Rowley, Ronald B.
; APPLICANT: Ostrowski, Jacek
; TITLE OF INVENTION: TRANSGENIC NON-HUMAN MAMMALS EXPRESSING A REPORTER NUCLEIC ACID
; FILE REFERENCE: UNDER THE REGULATION OF ANDROGEN RESPONSE ELEMENTS
; CURRENT APPLICATION NUMBER: US/10/620,514
; PRIOR FILING DATE: 2003-07-16
; PRIOR APPLICATION NUMBER: US 60/396,501
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4
; LENGTH: 2706
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; US-10-620-514-4

Query Match          3.9%; Score 46; DB 17; Length 2706;
Best Local Similarity 61.9%; Pred.No. 0.032;
Matches 73; Conservative 0; Mismatches 45; Indels 0; Gaps 0;

QY      762 CTAGCAGCACCACCTCTCTGACGCGGAGCTGTACTTACAAATACGCTGCTGCTGC 821
DB      632 CCAGTGGCTCTCCCTTGTCTCTACGCTGCTGCTGCTGGATATTACTCTGCTGCTGT 573
QY      822 CGCGCTGCTGTTGTGCTGCACTGCTGCGCGTGTGTTTCTGCTGTAGAGAA 879
DB      572 TCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGTAAGA 515

RESULT 9
; Sequence 1, Application US/10008739A
; Publication No. US20020161194A1
; GENERAL INFORMATION:
; APPLICANT: Pfizer Inc.
; APPLICANT: Castleberry, Teessa A.
; APPLICANT: Lu, Bihong
; APPLICANT: Owen, Thomas A.
; APPLICANT: Smock, Steven L.
; TITLE OF INVENTION: The Canine Androgen Receptor
; FILE REFERENCE: PCI0893AEP
; CURRENT APPLICATION NUMBER: US/10/008,739A
; CURRENT FILING DATE: 2002-04-15
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn version 3.1

```



QY 792 TSPACCTACATACGCTGCTGCTGCCGCCGCTGGTGGAGCGCAACTGCTCC 851  
Db 1124 TGTAGTTTTGTGTGCTGCTGCTGCTGCTGTGCTGTGAGTTTTTGTGCTGCTGCTGCTGC 1184  
QY 852 TCCCGTTGGTTTCTGCTGTAGACGAAAAAGAGATTTGC 892  
Db 1184 TCTCTGTGTCTGCAAAATGTGATGTTGGTAGATTTTG 1224

```

US-10-242-535A-1932
RESULT 14
US-10-242-535A-1932/C
/ Sequence 1932, Application US/10242535A
/ Publication No. US20040013663A1
/ GENERAL INFORMATION:
/ APPLICANT: ChondroGene Inc.
/ APPLICANT: Liew, C.C.
/ TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis
/ FILE REFERENCE: 4231/2005
/ CURRENT APPLICATION NUMBER: US/10/242,535A
/ PRIOR FILING DATE: 2002-09-12
/ PRIOR APPLICATION NUMBER: US 10/085,783
/ PRIOR FILING DATE: 2002-02-28
/ PRIOR APPLICATION NUMBER: US 60/305,340
/ PRIOR FILING DATE: 2001-07-13
/ PRIOR APPLICATION NUMBER: US 60/275,017
/ PRIOR FILING DATE: 2001-03-12
/ PRIOR APPLICATION NUMBER: US 60/271,955
/ PRIOR FILING DATE: 2001-02-28
/ NUMBER OF SEQ ID NOS: 58994
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 1932
/ LENGTH: 616
/ TYPE: DNA
/ ORGANISM: Human
US-10-242-535A-1932

```

[illegible]

```

RESULT 15
US-10-085-783A-1992/c
; Sequence 1992, Application US/10085783A
; Publication No. US20040037841A1
; GENERAL INFORMATION:
; APPLICANT: ChondroGene, Inc.
; APPLICANT: Lilew, C.C.
; TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis
; FILE REFERENCE: 4231/2002
; CURRENT APPLICATION NUMBER: US/10/085,783A
; CURRENT FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/305,340
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/275,017
; PRIOR FILING DATE: 2001-03-12
; PRIOR APPLICATION NUMBER: US 60/271,955
; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 58994
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1932
; LENGTH: 616
; TYPE: DNA
; ORGANISM: Human
US-10-085-783A-1932

```

Query Match	3.8%	Score 44.8;	DB 17;	length 616;
Best Local Similarity	81.2%;	Pred. No. 0.031;		
Matches 52; Conservative	0;	Mismatches 12;	Indels 0;	Gaps 0;

QY	808	GCGCTGCTGCTGCSCCGTGGTTGTSTAGCTCAACTGTGCTGCCGCTTGTTGTTCT	867
Db	486	GCGGCTGCTGCTGTTGCTTCTTCTCTCTCCTCTCTGCTGCTGTTGTTGCT	427
QY	868	GCTG	871
Db	426	GCTG	423

Search completed: February 25, 2005, 06:16:01  
Job time : 828.424 secs





Query Match	4.1%;	Score 47.6;	DB 4;	Length 2733;
Best Local Similarity	75.6%;	Pred. No. 0.0014;		

	Matches	59; conservative	0; mismatches	19; indels	0; gaps	0;
Qy	808	GCTGCTGCTGTCGCGCCGTCGTTGTTGCTGCAATGCTGCGCCGCTGTTGTTCT				867
Db	2284	GCTGCTGCTGCTGCTGCTGTTGTTGCTGCTGCTGCTGCTGCTGCTGCTGCT				2225
Qy	868	GCTGTAGAGAAAAG	885			
Db	2224	GCTGCTGCTGAGCTGAG	2207			

```

RESULT 6
US-09-270-767-30237/c
: Sequence 30237, Application US/09270767
: Patent No. 6703491
: GENERAL INFORMATION:
: APPLICANT: Homburger et al.
: TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
: FILE REFERENCE: File Reference: 7326-094
: CURRENT APPLICATION NUMBER: US/09/270,767
: CURRENT FILING DATE: 1999-03-17
: NUMBER OF SEQ_ID NOS: 62517
: SOFTWARE: PatentIn Ver. 2.0
: SEQ_ID NO 30237
: LENGTH: 1989
: TYPE: DNA
: ORGANISM: Drosophila melanogaster
US-09-270-767-30237

```

Query Match	3.9%	Score 46.4	DB 4	Length 1989
Best Local Similarity	77.8%	Pred. No. 0.0027		
Matches	56	Conservative	0	Mismatches 16; Indels 0; Gaps 0
Qy	808	GCTGCTGCTGCTGCCGCCGCTGCTTATTGAGTGCACATGCTGCTGCCGCTATTGTTTCT		867
Db	937	GCTGTTGCTGCTGCTGCTGCTTGTGATTTGCTGCTGCTGCTGCTGCTGCTTTATGCTGCT		878

QY 868 GCTGTAGAGAA 879  
||| |||  
Db 877 GCTGCTGACGAA 866

```

RESULT 7
US-09-270-767-14129/c
; Sequence 14129, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 732e-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14129
; LENGTH: 4773
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-14129

```

[illegible]

```

RESULT 8
US-09-270-767-12050/c
; Sequence 12050, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1998-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12050
; LENGTH: 1532
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-12050

```

[illegible]

QY	889	TTCGT	893
Db	1410	CATGT	1406

```

RESULT 9
US-09-491-356C-13/C
: Sequence 13, Application US/09491356C
: Patent No. 656061
: GENERAL INFORMATION:
: APPLICANT: Philibert, Robert A.
: APPLICANT: Gims, Edward I.
: APPLICANT: Delist, Lynn
: TITLE OF INVENTION: IDENTIFICATION OF POLYMORPHISMS IN THE PCTG4 REGION OF XOL13
: FILE REFERENCE: 9465, 6US11
: CURRENT APPLICATION NUMBER: US/09/491.356C
: CURRENT FILING DATE: 2000-01-26
: PRIOR APPLICATION NUMBER: PCT/US99/09365
: PRIOR FILING DATE: 1999-04-29
: PRIOR APPLICATION NUMBER: 60/083,465
: PRIOR FILING DATE: 1998-04-29
: NUMBER OF SEQ ID NOS: 24
: SOFTWARE: PatentIn version 3.1
: SEQ ID NO 13
: LENGTH: 253
: TYPE: DNA
: ORGANISM: Homo sapiens
US-09-491-356C-13

```

	Query Match	3.8%	Score 44.8	DB 4;	Length 253;
	Best Local Similarity	81.2%;	Pred. No.	0.002;	Mismatches 0
	Matches	52;	Conservative	0;	Indels 0; Gaps 0
Oy	808	GCTGTCGTGGTGCACCGCCTGTTTGATAGCATCTGCTGCCGATTGTTCT	867		
Dd	158	GCTGTGTCGTCTGCTGCTGTGCTGTCTGCTGCTGCTGCTGCTGCTGCTGCT	99		
Oy	868	GCTG	871		
Dd	98	GCTG	95		

## RESULT 10

RESULT 12  
 US-09-491-356C-17/C  
 ; Sequence 17, Application US/09491356C  
 ; Patent No. 6566061  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Philibert, Robert A.  
 ; APPLICANT: Glims, Edward I.  
 ; APPLICANT: Delist, Lynn  
 ; TITLE OF INVENTION: IDENTIFICATION OF POLYMORPHISMS IN THE PCTG4 REGION OF XQ13  
 ; FILE REFERENCE: 9465.6US11  
 ; CURRENT APPLICATION NUMBER: US/09/491.356C  
 ; CURRENT FILING DATE: 2000-01-26  
 ; PRIOR APPLICATION NUMBER: PCT/US99/09365  
 ; PRIOR FILING DATE: 1999-04-29  
 ; PRIOR APPLICATION NUMBER: 60/083,465  
 ; PRIOR FILING DATE: 1998-04-29  
 ; NUMBER OF SEQ ID NOS: 24  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 17  
 ;  
 ; LENGTH: 265  
 ;  
 ; TYPE: DNA

```

Query Match          3.8%; Score 44.8; DB 4; Length 265;
Best Local Similarity 81.2%; Pred. No. 0.0021;
Matches    52; Conservative      0; Mismatches   12; Indels     0; Gaps     0;

Qy           808 GCTGCTGCTGCTGCCCGCCGTGGTTTGTCGCTGCACATGCTGCTGCCGTTTGTCT 867
            |||||
Db          158 GCTGCTGCTGCTGCTGCTGTTGCTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 99
            |||||

Qy           868 GCTG 871
            |||||
Db           98 GCTG 95

RESULT 13
US-09-491-356C-18/c
; Sequence 18, Application US/09491356C
; Patent No. 6566061
; GENERAL INFORMATION:
; APPLICANT: Philibert, Robert A.
; APPLICANT: Gibbs, Edward I.
; TITLE OR INVENTION: IDENTIFICATION OF POLYMORPHISMS IN THE PCTG4 REGION OF XOL1
; FILE REFERENCE: 9465.6US11
; CURRENT APPLICATION NUMBER: US/09/491.356C
; PRIOR FILING DATE: 2000-01-26
; PRIOR APPLICATION NUMBER: PCT/US99/09365
; PRIOR FILING DATE: 1999-04-29
; PRIOR APPLICATION NUMBER: 60/083,465
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 18
; LENGTH: 265
; TYPE: DNA

```

Query Match	3.8%	Score 44.8	DB 4	Length 265
Best Local Similarity	81.2%	Pred. No. 0.0021		
Matches	52	Conservative	0	Mismatches 12, Indels 0, Gaps 0
QY	808	GCTGCTGCTGCTGCCGCGTGTGTGTGAGCTGCAACTGCTCTGCTCCGCTGTGTTCT		867
Db	158	GCTGTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT		99
QY	868	GCTG 871		
Db	98	GCTG 95		



**This Page Blank (uspto)**

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: February 22, 2005, 19:26:31, Search time 72.4939 Seconds  
(without alignments)  
1724.366 Million cell updates/sec

Title: US-09-729-264-2

Perfect score: 2059

Sequence: 1 MGVLFILHSGSGSNGEIVEGP.....HPQASFNLASPKKVSNTTVV 382

Scoring table: BLOSUM62  
Gapop 10.0, Gapext 0.5

Searched: 1380268 seqs, 327241040 residues

Total number of hits satisfying chosen parameters: 1380268

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA:\*

- 1: /cgn2\_6/ptodata/2/pubppaa/US07\_PUBCOMB.pep:\*
- 2: /cgn2\_6/ptodata/2/pubppaa/PCT\_NEW\_PUB.pep:\*
- 3: /cgn2\_6/ptodata/2/pubppaa/US06\_NEW\_PUB.pep:\*
- 4: /cgn2\_6/ptodata/2/pubppaa/US06\_PUBCOMB.pep:\*
- 5: /cgn2\_6/ptodata/2/pubppaa/US07\_NEW\_PUB.pep:\*
- 6: /cgn2\_6/ptodata/2/pubppaa/PCTUS\_PUBCOMB.pep:\*
- 7: /cgn2\_6/ptodata/2/pubppaa/US08\_NEW\_PUB.pep:\*
- 8: /cgn2\_6/ptodata/2/pubppaa/US08\_PUBCOMB.pep:\*
- 9: /cgn2\_6/ptodata/2/pubppaa/US09\_PUBCOMB.pep:\*
- 10: /cgn2\_6/ptodata/2/pubppaa/US09B\_PUBCOMB.pep:\*
- 11: /cgn2\_6/ptodata/2/pubppaa/US09C\_PUBCOMB.pep:\*
- 12: /cgn2\_6/ptodata/2/pubppaa/US09\_NEW\_PUB.pep:\*
- 13: /cgn2\_6/ptodata/2/pubppaa/US10B\_PUBCOMB.pep:\*
- 14: /cgn2\_6/ptodata/2/pubppaa/US10C\_PUBCOMB.pep:\*
- 15: /cgn2\_6/ptodata/2/pubppaa/US10D\_PUBCOMB.pep:\*
- 16: /cgn2\_6/ptodata/2/pubppaa/US10\_NEW\_PUB.pep:\*
- 17: /cgn2\_6/ptodata/2/pubppaa/US11\_NEW\_PUB.pep:\*
- 18: /cgn2\_6/ptodata/2/pubppaa/US11\_NEW\_PUB.pep:\*
- 19: /cgn2\_6/ptodata/2/pubppaa/US60\_PUBCOMB.pep:\*
- 20: /cgn2\_6/ptodata/2/pubppaa/US60\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2014	97.8	407	15	US-10-104-047-3074
2	147.5	7.2	390	15	US-10-309-290-98
3	147.5	7.2	390	15	US-10-309-290-100
4	147.5	7.2	404	15	US-10-309-290-96
5	142	6.9	405	8	US-08-755-235-4
6	140	6.8	633	14	US-10-180-410-26
7	138.5	6.7	2473	14	US-10-184-644-559
8	138.5	6.7	2473	14	US-10-184-634-559
9	138	6.7	592	14	US-10-180-410-2
10	138	6.7	592	15	US-10-312-528-2
11	136	6.6	594	14	US-10-180-410-12
12	136	6.6	594	15	US-10-312-528-12
13	136	6.6	708	13	US-10-052-586-584

14	136	6.6	708	14	US-10-174-590-584	Sequence 584, App
15	136	6.6	708	14	US-10-176-758-584	Sequence 584, App
16	136	6.6	708	14	US-10-175-737-584	Sequence 584, App
17	136	6.6	708	14	US-10-174-581-584	Sequence 584, App
18	136	6.6	708	14	US-10-176-483-584	Sequence 584, App
19	136	6.6	708	14	US-10-176-749-584	Sequence 584, App
20	136	6.6	708	14	US-10-176-914-584	Sequence 584, App
21	136	6.6	708	14	US-10-176-915-584	Sequence 584, App
22	136	6.6	708	14	US-10-173-706-584	Sequence 584, App
23	136	6.6	708	14	US-10-175-728-584	Sequence 584, App
24	136	6.6	708	14	US-10-175-752-584	Sequence 584, App
25	136	6.6	708	14	US-10-176-482-584	Sequence 584, App
26	136	6.6	708	14	US-10-176-757-584	Sequence 584, App
27	136	6.6	708	14	US-10-176-913-584	Sequence 584, App
28	136	6.6	708	14	US-10-180-552-584	Sequence 584, App
29	136	6.6	708	14	US-10-180-557-584	Sequence 584, App
30	136	6.6	708	14	US-10-173-700-584	Sequence 584, App
31	136	6.6	708	14	US-10-174-572-584	Sequence 584, App
32	136	6.6	708	14	US-10-174-579-584	Sequence 584, App
33	136	6.6	708	14	US-10-174-582-584	Sequence 584, App
34	136	6.6	708	14	US-10-174-588-584	Sequence 584, App
35	136	6.6	708	14	US-10-175-739-584	Sequence 584, App
36	136	6.6	708	14	US-10-175-740-584	Sequence 584, App
37	136	6.6	708	14	US-10-175-743-584	Sequence 584, App
38	136	6.6	708	14	US-10-176-488-584	Sequence 584, App
39	136	6.6	708	14	US-10-176-492-584	Sequence 584, App
40	136	6.6	708	14	US-10-176-747-584	Sequence 584, App
41	136	6.6	708	14	US-10-176-750-584	Sequence 584, App
42	136	6.6	708	14	US-10-176-985-584	Sequence 584, App
43	136	6.6	708	14	US-10-176-987-584	Sequence 584, App
44	136	6.6	708	14	US-10-176-992-584	Sequence 584, App
45	136	6.6	708	14	US-10-176-993-584	Sequence 584, App

## ALIGNMENTS

RESULT 1  
US-10-104-047-3074  
; Sequence 3074, Application US/10104047  
; Publication No. US20030236392A1  
; GENERAL INFORMATION:  
; APPLICANT: HELIX RESEARCH INSTITUTE  
; TITLE OF INVENTION: NO. US20030236392A1e1 full length cDNA  
; FILE REFERENCE: H1-A0105  
; CURRENT APPLICATION NUMBER: US/10/104,047  
; PRIOR FILING DATE: 2002-03-25  
; PRIOR APPLICATION NUMBER:  
; NUMBER OF SEQ ID NOS: 4096  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3074  
; LENGTH: 407  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-104-047-3074

Query Match 97.8%; Score 2014; DB 15; Length 407;  
Best Local Similarity 99.7%; Pred. No. 9.7e-159;  
Matches 373; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY	9	GGSGNGEVEEGQNTATVKGSGARPCCTYSQGWKLIMWLSDMVYLSVPMPIITNDPF	68
DB	34	GGSGNGEVEIEGQNTATVKGSGARPCCTYSQGWKLIMWLSDMVYLSVPMPIITNDPF	93
QY	69	TSQRVDGNGFTSEMIIHNVEPSDGNIRCSQNSRLHGSAYLVTVQVMGELFIPSVNLTV	128
DB	94	TSQRVDGNGFTSEMIIHNVEPSDGNIRCSQNSRLHGSAYLVTVQVMGELFIPSVNLTV	153
QY	129	AENPECVTCPSHWTRLPDISMELGLVSHSSYFVPEPSDQSAVSLALTPQSGNTL	188
DB	154	AENPECVTCPSHWTRLPDISMELGLVSHSSYFVPEPSDQSAVSLALTPQSGNTL	213

PRIOR FILING DATE: 2002-12-02  
PRIOR APPLICATION NUMBER: 60/336,600  
PRIOR FILING DATE: 2001-12-05  
PRIOR APPLICATION NUMBER: 60/338,285  
PRIOR FILING DATE: 2001-12-07  
PRIOR APPLICATION NUMBER: 60/341,346  
PRIOR FILING DATE: 2001-12-12  
PRIOR APPLICATION NUMBER: 60/341,477  
PRIOR FILING DATE: 2001-12-17  
PRIOR APPLICATION NUMBER: 60/341,540  
PRIOR FILING DATE: 2001-12-17  
PRIOR APPLICATION NUMBER: 60/342,592  
PRIOR FILING DATE: 2001-12-20  
PRIOR APPLICATION NUMBER: 60/344,297  
PRIOR FILING DATE: 2001-12-27  
PRIOR APPLICATION NUMBER: 60/344,903  
PRIOR FILING DATE: 2001-12-31  
PRIOR APPLICATION NUMBER: 60/373,288  
PRIOR FILING DATE: 2002-04-17  
PRIOR APPLICATION NUMBER: 60/380,981  
PRIOR FILING DATE: 2002-05-15

APPLICANT: Zhong Huiheng

RESULT 3  
US-10-309-290-100  
Sequence 100. Application US/10309290  
Publication No. US20040023241A1  
GENERAL INFORMATION:  
APPLICANT: Alsbroock II, John P.  
APPLICANT: Anderson, David W.  
APPLICANT: Boldog, Ferenc L.  
APPLICANT: Burgess, Catherine E.  
APPLICANT: Chhillakuru, Rajeev A.  
APPLICANT: Edinger, Shlomit R.  
APPLICANT: Gerlach, Valerie L.  
APPLICANT: Gorman, Linda  
APPLICANT: Gould-Rothberg, Bonnie E.  
APPLICANT: Guo, Xiaojia  
APPLICANT: Jeffers, Michael E.  
APPLICANT: Ji, Weizhen  
APPLICANT: Li, Li  
APPLICANT: Malyankar, Uriel M.  
APPLICANT: Miller, Charles E.  
APPLICANT: Murphey, Ryan  
APPLICANT: Paturajan, Meera  
APPLICANT: Peyman, John A.  
APPLICANT: Rastelli, Luca  
APPLICANT: Rieger, Daniel K.  
APPLICANT: Shenoy, Suresh G.  
APPLICANT: Smithson, Glenda  
APPLICANT: Stirling, Gary  
APPLICANT: Taupier, Raymond J.  
APPLICANT: Voss, Edward Z.  
APPLICANT: Zhong, Hailong



```

; APPLICANT: Zhong, Mei
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-502A
; CURRENT APPLICATION NUMBER: US/10/309,290
; CURRENT FILING DATE: 2002-12-02
; PRIOR APPLICATION NUMBER: 60/336,600
; PRIOR FILING DATE: 2001-12-05
; PRIOR APPLICATION NUMBER: 60/338,285
; PRIOR FILING DATE: 2001-12-07
; PRIOR APPLICATION NUMBER: 60/341,346
; PRIOR FILING DATE: 2001-12-12
; PRIOR APPLICATION NUMBER: 60/341,477
; PRIOR FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: 60/341,540
; PRIOR FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: 60/342,592
; PRIOR FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: 60/344,297
; PRIOR FILING DATE: 2001-12-27
; PRIOR APPLICATION NUMBER: 60/344,903
; PRIOR FILING DATE: 2001-12-31
; PRIOR APPLICATION NUMBER: 60/373,288
; PRIOR FILING DATE: 2002-04-17
; PRIOR APPLICATION NUMBER: 60/380,981
; PRIOR FILING DATE: 2002-05-15
; Remaining prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 274
; SOFTWARE: CuroSeqList version 0.1
; SEQ ID NO 100
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-309-290-100

```

Query Match 7.2%; Score 147.5; DB 15; Length 390;

Best Local Similarity 22.6%; Pred. No. 0.0011; Matches 85; Conservative 40; Mismatches 114; Indels 137; Gaps 18;

```

QY 15 EVIEGPNATVTKGSGARFNCTVSQ--WKLMALSDMVLVSRPMEPIITNDRFTS- 70
DB 111 EIVDSASELTA--GVPNKVGTCVSEGSYPAGTLSWHLDG-----KPLVNEKGVSV 159
QY 71 ----ORVDOGNFT--SEMIHNVPSDSGNR-----CSLQNSRLHGSAYLVTVQWNGELF 120
DB 160 KQOTRRHPETGLFTLQSELM--VTPARGDPRPTFSFSFGLPRHRLRTAPIQPRW 216
QY 121 IP-----SVNLVVAENEP-----CEVTLPSHWTRLPDISWELGLVSHSSY 162
DB 217 EVVPLEEVQLV---EPREGAVAPGCTVTLTCEVPAQPS-----PQIHMKD----- 260
QY 163 YVVPESDILQSAVSIATLPQSNGLTCAVTKSLKARKSATVNLTVIRCPDPTGGGINI 222
DB 261 -GVPLPLPSPVLIPLIEIPQDQGTYSQVATHSHQPSRAVSIIR-PCBEG----- 313
QY 223 PGVLSLPLGLSLPTWGVVGLAGTMTLT-----PCTLTIRCCCRRCRCCCNCC 275
DB 314 -----PTAGSVGSGGLTGLALGILGLGTAALLIVILMQR----- 352
QY 276 CRCCFCRRKRGRIQFOKKSEKKT--NKETETESGNGNSGYNSDEQTTDTASLPPKS 333
DB 353 -----QRRGERKAPENQEEEBEBAELN----- 375
QY 334 CESSDEPQNSGCCPP 349
DB 376 -QSEBEAGESSYTCP 390

```

RESULT 4  
US-10-309-290-96

; Sequence 96, Application US/10309290  
; Publication No. US20040023241A1  
; GENERAL INFORMATION:  
; APPLICANT: Alsbrook II, John P.

```

; APPLICANT: Anderson, David W.
; APPLICANT: Boldog, Ferenc L.
; APPLICANT: Burgess, Catherine E.
; APPLICANT: Chhillakuru, Rajeev A.
; APPLICANT: Edinger, Shlomit R.
; APPLICANT: Gerlach, Valerie L.
; APPLICANT: Gorman, Linda
; APPLICANT: Gould-Rothberg, Bonnie E.
; APPLICANT: Guo, Xiaojia
; APPLICANT: Jeffers, Michael E.
; APPLICANT: Ji, Weizhen
; APPLICANT: Li, Li
; APPLICANT: Malvankar, Uriel M.
; APPLICANT: Miller, Charles E.
; APPLICANT: Murphey, Ryan
; APPLICANT: Paturajan, Meera
; APPLICANT: Peyman, John A.
; APPLICANT: Rastelli, Luca
; APPLICANT: Rieger, Daniel K.
; APPLICANT: Shenoy, Suresh G.
; APPLICANT: Smithson, Glenda
; APPLICANT: Starling, Gary
; APPLICANT: Taupier, Raymond J.
; APPLICANT: Voss, Edward Z.
; APPLICANT: Zhong, Hainong
; APPLICANT: Zhong, Mei
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-502A
; CURRENT APPLICATION NUMBER: US/10/309,290
; CURRENT FILING DATE: 2002-12-02
; PRIOR APPLICATION NUMBER: 60/336,600
; PRIOR FILING DATE: 2001-12-05
; PRIOR APPLICATION NUMBER: 60/338,285
; PRIOR FILING DATE: 2001-12-07
; PRIOR APPLICATION NUMBER: 60/341,346
; PRIOR FILING DATE: 2001-12-12
; PRIOR APPLICATION NUMBER: 60/341,477
; PRIOR FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: 60/341,540
; PRIOR FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: 60/342,592
; PRIOR FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: 60/344,297
; PRIOR FILING DATE: 2001-12-27
; PRIOR APPLICATION NUMBER: 60/344,903
; PRIOR FILING DATE: 2001-12-31
; PRIOR APPLICATION NUMBER: 60/373,288
; PRIOR FILING DATE: 2002-04-17
; PRIOR APPLICATION NUMBER: 60/380,981
; PRIOR FILING DATE: 2002-05-15
; Remaining prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 274
; SOFTWARE: CuroSeqList version 0.1
; SEQ ID NO 96
; LENGTH: 404
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-309-290-96

```

Query Match 7.2%; Score 147.5; DB 15; Length 404;

Best Local Similarity 22.6%; Pred. No. 0.0011; Matches 85; Conservative 40; Mismatches 114; Indels 137; Gaps 18;

```

QY 15 EVIEGPNATVTKGSGARFNCTVSQ--WKLMALSDMVLVSRPMEPIITNDRFTS- 70
DB 125 EIVDSASELTA--GVPNKVGTCVSEGSYPAGTLSWHLDG-----KPLVNEKGVSV 173
QY 71 ----ORVDOGNFT--SEMIHNVPSDSGNR-----CSLQNSRLHGSAYLVTVQWNGELF 120
DB 174 KQOTRRHPETGLFTLQSELM--VTPARGDPRPTFSFSFGLPRHRLRTAPIQPRW 230
QY 121 IP-----SVNLVVAENEP-----CEVTLPSHWTRLPDISWELGLVSHSSY 162

```

```

Db      231 EPVPLEEVQLV---BREGAVAPRGTVTLTCEVPAQS-----DOIHMMD----- 274
Qy      163 YFPBESDQASVSIILTPQSNGLTCVAATWKSARKSATVNLTVIRCPDGTGGINI 222
Db      275 -GVPPLPSPVLIPEIGPODQGTYSQVATHSHQPSRAVSIIE-POEBE----- 327
Qy      223 PGLVSLPGLFSLPTWKGVLGLAGTMLT-----PTCTLTIRCCCRRCGCCNCC 275
Db      328 -----PTAGSVGGSGGLTALAILGIGLGTALLIGVILMORR----- 366
Qy      276 CACCCPCRRKGRFRIQFOKSEKKT--NKETETESGENSGYNSDEQKTTDTASLPKS 333
Db      367 -----ORRGERRKAPENQEEERAEALN----- 389
Qy      334 CESSDPEQRNSSCGPP 349
Db      390 -QSEEPKAGSSTGCP 404

```

```

RESULT 5
US-08-735-235-4
; Sequence 4, Application US/08755235
; Publication No. US20030059423A1
; GENERAL INFORMATION:
; APPLICANT: Stern, David M.
; APPLICANT: Schmidt, Ann Marie
; APPLICANT: Wu, Jun
; TITLE OF INVENTION: METHOD FOR TREATING SYMPTOMS OF DIABETES
; FILE REFERENCE: 0575/50159
; CURRENT APPLICATION NUMBER: US/08/755,235
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 405
; TYPE: PRT
; ORGANISM: Human
US-08-735-235-4

```

```

Query Match      6.9%; Score 142; DB 8; Length 405;
Best Local Similarity 22.8%; Pred. No. 0.0032;
Matches 86; Conservative 40; Mismatches 113; Indels 138; Gaps 19;

Qy      15 EVLEGPQNAATVLKGSQARFNCVTSQ---MKLIMWALSDMVLSVRMEPIITNDRTFS- 70
Db      125 EIVDSASELTA--GVENKXGTCVSEGSYPAGTLSWHLDG-----KPLVPEKGVSV 173
Qy      71 ----QRYDQGNFT--SEMTIHNVBPSDSGNIR-----CSLQNSRLHGSAYLTVQVWGELEF 120
Db      174 KEOTRHHPTGLFTLOSEIM--VTPARGDPRPTFSCSFSGPLRHHALMTAPIQPRVW 230
Qy      121 IP-----SVNLVVAENEP-----CEVTCLESHWTRLPDISWEGLVSHSSY 162
Db      231 EPVPLEEVQLV---BREGAVAPRGTVTLTCEVPAQS-----FOIHMMKD----- 274
Qy      163 YFVPEPSDQASVSIILTPQSNGLTCVAATWKSARKS-ATVNLTVIRCPDGTGGIN 221
Db      275 -GVPPLPSPVLIPEIGPODQGTYSQVATHSHQPSRAVSIIE-POEBE----- 328
Qy      222 IPGLVSLPGLFSLPTWKGVLGLAGTMLT-----PTCTLTIRCCCRRCGCCNCC 274
Db      329 -----PTAGSVGGSGGLTALAILGIGLGTALLIGVILMORR----- 366
Qy      275 CCRCCPCRRKGRFRIQFOKSEKKT--NKETETESGENSGYNSDEQKTTDTASLPK 332
Db      368 -----ORRGERRKAPENQEEERAEALN----- 390
Qy      333 CESSDPEQRNSSCGPP 349
Db      391 -QSEEPKAGSSTGCP 405

```

RESULT 6

```

US-10-180-410-26
; Sequence 26, Application US/10180410
; Publication No. US20030148382A1
; GENERAL INFORMATION:
; APPLICANT: SUN, CHAO
; APPLICANT: CARULLI, JOHN P.
; APPLICANT: LUKASHIN, ALEXANDER V.
; APPLICANT: KILBURN, DANIEL R.
; TITLE OF INVENTION: PANCREATIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: A097 CIP
; CURRENT APPLICATION NUMBER: US/10/180,410
; PRIOR FILING DATE: 2002-06-24
; PRIOR APPLICATION NUMBER: PCT/US01/19904
; PRIOR FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: 60/213,611
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 26
; LENGTH: 633
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-180-410-26

```

```

Query Match      6.8%; Score 140; DB 14; Length 633;
Best Local Similarity 24.2%; Pred. No. 0.0083;
Matches 56; Conservative 40; Mismatches 105; Indels 30; Gaps 10;

Qy      3 LVIFHSGSGNEVIEBGPQNAATVLKGSQARFNCVTSQGMKLIMWALSDMVLSVRMEPI 62
Db      13 LFCFRGAGSPSPHILQDPEDLVLLGEARLPALGAYVGLVQMTSGALGGQR----- 67
Qy      63 ITNDRFTSQRYDQGNFTS---EMTIHNVBPSDSGNIRCSLQNSRLHG-SAVLTV----- 113
Db      68 ----DLPGMSRYWISGANANGCHDLHIRPELDEBASIEGOAIOAGLRSPAQLVHVPPE 124
Qy      114 --QVWGELEFIPSVNLVVAENEPCEVTCLESHWTR-LPDISW-ELGLVSHSSY--FVPE 167
Db      125 APQVLGG--PSVSLVA--GVPAHLTCRSRGARPTPELIMPRDVLIDGATFHQTLKE 179
Qy      168 -PSDQASVSIILTPQSNGLTCVAATWKSARKSATVNLTVIRCPQDT 216
Db      180 GTGVSVESTLTLPFSHDDGATLVCRARSGALPTGRDRAITLSLOYPEVT 230

```

```

RESULT 7
US-10-184-644-559
; Sequence 559, Application US/10184644
; Publication No. US20030044930A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Goddowsky, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C227
; CURRENT APPLICATION NUMBER: US/10/184,644
; PRIOR FILING DATE: 2002-06-28
; PRIOR APPLICATION removed - See file wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 559
; LENGTH: 2473
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-184-644-559

```

Query Match 6.7%; Score 138.5; DB 14; Length 2473;  
Best Local Similarity 29.5%; Pred. No. 0.065;  
Matches 31; Conservative 3; Mismatches 36; Indels 35; Gaps 2;  
ORGANISM: Homo sapiens  
US-10-180-410-2

179 ALTPGNGTLTCAATKSLKARKSATVNLTVIRCPDGTGGINIPGVLSLPGLSPLPT 238  
2274 AATTGAAGTTTCAATTAAATTAATATATGTTTC----- 2307

239 WGVGVLGAGTMLTPTCTLTIRCCCR-RRCGCNCCRCRCPC 282  
2308 -----ATTCTCATCGCCACCCACCCCGCCGCCACCAACC 2344

RESULT 8  
US-10-184-634-559  
Sequence 559, Application US/10184634  
Publication No. US20030068684A1  
GENERAL INFORMATION:  
APPLICANT: Baker, Kevin P.  
APPLICANT: Chen, Jian  
APPLICANT: Desnoyers, Luc  
APPLICANT: Gaddard, Audrey  
APPLICANT: Gddowski, Paul J.  
APPLICANT: Gierney, Austin L.  
APPLICANT: Pan, James  
APPLICANT: Smith, Victoria  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
FILE REFERENCE: P3430R1C217  
CURRENT APPLICATION NUMBER: US/10/184,634  
CURRENT FILING DATE: 2002-06-28  
Prior Application removed - See File Wrapper or Palm  
NUMBER OF SEQ ID NOS: 612  
SEQ ID NO 559  
LENGTH: 2473  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-184-634-559

Query Match 6.7%; Score 138.5; DB 14; Length 2473;  
Best Local Similarity 29.5%; Pred. No. 0.065;  
Matches 31; Conservative 3; Mismatches 36; Indels 35; Gaps 2;  
ORGANISM: Homo sapiens  
US-10-180-410-2

179 ALTPGNGTLTCAATKSLKARKSATVNLTVIRCPDGTGGINIPGVLSLPGLSPLPT 238  
2274 AATTGAAGTTTCAATTAAATTAATATATGTTTC----- 2307

239 WGVGVLGAGTMLTPTCTLTIRCCCR-RRCGCNCCRCRCPC 282  
2308 -----ATTCTCATCGCCACCCACCCCGCCGCCACCAACC 2344

RESULT 9  
US-10-180-410-2  
Sequence 2, Application US/10180410  
Publication No. US20030148382A1  
GENERAL INFORMATION:  
APPLICANT: SUN, CHAO  
APPLICANT: CARULLI, JOHN P.  
APPLICANT: LUKASHIN, ALEXANDER V.  
APPLICANT: KILBURN, DANIEL R.  
TITLE OF INVENTION: PANCAK NUCLEIC ACIDS AND POLYPEPTIDES  
FILE REFERENCE: A097 CIP  
CURRENT APPLICATION NUMBER: US/10/180,410  
CURRENT FILING DATE: 2002-06-24  
PRIOR APPLICATION NUMBER: PCT/US01/19904  
PRIOR FILING DATE: 2001-06-22  
PRIOR APPLICATION NUMBER: 60/213,611  
PRIOR FILING DATE: 2000-06-22

NUMBER OF SEQ ID NOS: 33  
SOFTWARE: Patent Ver. 2.1  
SEQ ID NO 2  
LENGTH: 592  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-180-410-2

Query Match 6.7%; Score 138; DB 14; Length 592;  
Best Local Similarity 23.8%; Pred. No. 0.011;  
Matches 55; Conservative 40; Mismatches 106; Indels 30; Gaps 10;  
ORGANISM: Homo sapiens  
US-10-312-528-2

3 LVIFLHSGSGNEVIEGPONATVLKSGARFNTVSGQKLTIMALSDMNVLSVRPMEPI 62  
10 LFCFRGSAGSPHPHQLQPEDLVLLGEEARLPCALGAYGLVQWTKSGIALGGR----- 64

63 ITNDRFTSQRYDQGNFTS---EMTIHNVPESDGNIRCSLONSRLHG-SAYLVTV----- 113  
65 ---DLPGMSRYWISGNAANGCHDLHIRPELEDEASVEGQATQAGLRSPAGLHLVLPPE 121

114 --QVNGELFIPSVNLVVAENPECEVTCLEPSHWTR-LPDISW-ELGLVSHSSYV--FVPE 167  
122 APQVLGG--PSVSLVA--GVPAANTCRSRGDPARTPELWFRDGVLLDGTTFHQTLKE 176

168 --PSDLQSAVSLIALTPGNGTLTCAATKSLKARKSATVNLTVIRCPDPT 216  
177 GTPGSVESTLTLPSPSHDGAFTVCARNSQALPTGRDPAITLSLQYPPEVT 227

RESULT 10  
US-10-312-528-2  
Sequence 2, Application US/10312528  
Publication No. US20030211517A1  
GENERAL INFORMATION:  
APPLICANT: BIOGEN, INC.  
APPLICANT: CARULLI, JOHN P.  
APPLICANT: LUKASHIN, ALEXANDER V.  
APPLICANT: KILBURN, DANIEL R.  
APPLICANT: SUN, CHAO  
TITLE OF INVENTION: GP354 NUCLEIC ACIDS AND POLYPEPTIDES  
FILE REFERENCE: A097PCT00454-114  
CURRENT APPLICATION NUMBER: US/10/312,528  
CURRENT FILING DATE: 2002-12-23  
PRIOR APPLICATION NUMBER: 60/213,611  
PRIOR FILING DATE: 2000-06-22  
NUMBER OF SEQ ID NOS: 18  
SOFTWARE: Patent Ver. 2.1  
SEQ ID NO 2  
LENGTH: 592  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-312-528-2

Query Match 6.7%; Score 138; DB 15; Length 592;  
Best Local Similarity 23.8%; Pred. No. 0.011;  
Matches 55; Conservative 40; Mismatches 106; Indels 30; Gaps 10;  
ORGANISM: Homo sapiens  
US-10-312-528-2

3 LVIFLHSGSGNEVIEGPONATVLKSGARFNTVSGQKLTIMALSDMNVLSVRPMEPI 62  
10 LFCFRGSAGSPHPHQLQPEDLVLLGEEARLPCALGAYGLVQWTKSGIALGGR----- 64

63 ITNDRFTSQRYDQGNFTS---EMTIHNVPESDGNIRCSLONSRLHG-SAYLVTV----- 113  
65 ---DLPGMSRYWISGNAANGCHDLHIRPELEDEASVEGQATQAGLRSPAGLHLVLPPE 121

114 --QVNGELFIPSVNLVVAENPECEVTCLEPSHWTR-LPDISW-ELGLVSHSSYV--FVPE 167  
122 APQVLGG--PSVSLVA--GVPAANTCRSRGDPARTPELWFRDGVLLDGTTFHQTLKE 176

168 --PSDLQSAVSLIALTPGNGTLTCAATKSLKARKSATVNLTVIRCPDPT 216  
177 GTPGSVESTLTLPSPSHDGAFTVCARNSQALPTGRDPAITLSLQYPPEVT 227

```
RESULT 11
US-10-180-410-12
; Sequence 12, Application US/10180410
; Publication No. US20030148382A1
; GENERAL INFORMATION:
; APPLICANT: SUN, CHAO
; APPLICANT: CARULLI, JOHN P.
; APPLICANT: LUKASHIN, ALEXANDER V.
; APPLICANT: KILBURN, DANIEL R.
; TITLE OF INVENTION: PANCAM NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: A097 CIP
; CURRENT APPLICATION NUMBER: US/10/180,410
; CURRENT FILING DATE: 2002-06-24
; PRIOR APPLICATION NUMBER: PCT/US01/19904
; PRIOR FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: 60/213,611
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 594
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-180-410-12
```

```
Query Match 6.6%; Score 136; DB 14; Length 594;
Best Local Similarity 23.8%; Pred. No. 0.017;
Matches 55; Conservative 40; Mismatches 106; Indels 30; Gaps 10;

QY 3 LVIFLHSGSGNEVIEGPONATVLKSGQAFNCTVSGQKLIWMLSDWVLSVRPMEPI 62
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 10 LFCFRGAGSPSPHFLQOPEDLVLLGGEARLPCALGAYWGLVQWTKSLALGGQR----- 64
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY 63 ITNDRFTSORYDQGNFTS---EMTIHNVPSDSGNIRCSLQNSRLHG-SAYLTV----- 113
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 65 ---DLPGMSRYWISGNAANGQHDHLRPVLEDEASVYCQATQAGLRSPAQQLHLVLPPE 121
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY 114 --QVMGELFIPSNLVVAENEPCEVTCLPSSHMTW-LPDISW-ELGLVSHSSY--FVPE 167
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 122 APQVLGG--PSVSLVA--GVPAULTCRSRGDARPTPELIMFRDGLLDGATFHQTLLKE 176
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY 168 --PSDLOSASVSIALTPOSGNGLTCVATWKSILKARSAVNVLTVIRCPQDT 216
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 177 GTPGSVESITLTPPSHDDGATFVCARASQALPTGRDTALTLSIQYPEVTV 227
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
```

```
RESULT 12
US-10-312-528-12
; Sequence 12, Application US/10312528
; Publication No. US20030211517A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; APPLICANT: CARULLI, JOHN P.
; APPLICANT: LUKASHIN, ALEXANDER V.
; APPLICANT: KILBURN, DANIEL R.
; APPLICANT: SUN, CHAO
; TITLE OF INVENTION: GP354 NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: A097PCT000454-114
; CURRENT APPLICATION NUMBER: US/10/312,528
; CURRENT FILING DATE: 2002-12-23
; PRIOR APPLICATION NUMBER: 60/213,611
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 594
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-312-528-12
```

```
Query Match 6.6%; Score 136; DB 15; Length 594;
Best Local Similarity 23.8%; Pred. No. 0.017;
```

```
Matches 55; Conservative 40; Mismatches 106; Indels 30; Gaps 10;

QY 3 LVIFLHSGSGNEVIEGPONATVLKSGQAFNCTVSGQKLIWMLSDWVLSVRPMEPI 62
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 10 LFCFRGAGSPSPHFLQOPEDLVLLGGEARLPCALGAYWGLVQWTKSLALGGQR----- 64
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY 63 ITNDRFTSORYDQGNFTS---EMTIHNVPSDSGNIRCSLQNSRLHG-SAYLTV----- 113
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 65 ---DLPGMSRYWISGNAANGQHDHLRPVLEDEASVYCQATQAGLRSPAQQLHLVLPPE 121
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY 114 --QVMGELFIPSNLVVAENEPCEVTCLPSSHMTW-LPDISW-ELGLVSHSSY--FVPE 167
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 122 APQVLGG--PSVSLVA--GVPAULTCRSRGDARPTPELIMFRDGLLDGATFHQTLLKE 176
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY 168 --PSDLOSASVSIALTPOSGNGLTCVATWKSILKARSAVNVLTVIRCPQDT 216
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 177 GTPGSVESITLTPPSHDDGATFVCARASQALPTGRDTALTLSIQYPEVTV 227
   | | | | | | | | | | | | | | | | | | | | | | | | | | | |
```

```
RESULT 13
US-10-052-586-584
; Sequence 584, Application US/10052586
; Publication No. US20020127584A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Qian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: ACIDS AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C1
; CURRENT APPLICATION NUMBER: US/10/052,586
; CURRENT FILING DATE: 2002-01-15
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059266
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063120
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/063121
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/063486
; PRIOR FILING DATE: 1997-10-21
; PRIOR APPLICATION NUMBER: 60/063540
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063541
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063544
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063564
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063734
; PRIOR FILING DATE: 1997-10-29
; PRIOR APPLICATION NUMBER: 60/063870
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/064103
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066120
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/066466
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/066772
```



; PRIOR FILING DATE: 1998-06-17  
; PRIOR APPLICATION NUMBER: 60/089908

Query Match 6.6%; Score 136; DB 13; Length 708;  
Best Local Similarity 23.8%; Pred. No. 0.021;  
Matches 55; Conservative 40; Mismatches 106; Indels 30; Gaps 10;

QY 3 LVIFLHSGSGNEVIEGQNAVTVKSGQARFNCTVSGMKLIMVALSDMVLSVRMEPI 62  
DB 13 LFCFRGRAGSPHFLQOPEDLVLLGEBARLPCALGAYWGLVQWTKSGLALGGQR----- 67  
QY 63 ITNDRFTSORYDOGNFTS---EMIIHNVPSDSGNIRCSLQNSRLHG-SAYLTV----- 113  
DB 68 ---DLPGMSRWISGMNANGQHDHIRPVELDEASVECOATQAGLRSPQQLHVLVPE 124  
QY 114 --QVMGELFIPSVNLVVAENEPCEVTCCLPSHWTR-LPDISW-ELGLVSHSSY--FVPE 167  
DB 125 APQVLGG--PSVSLVA--GVPAWLTCRSRGDARPTPELLMFRDGVLLDGAFTHQTLKE 179  
QY 168 --PSDLQSAVSIILATPQSNGLTLCVATWKSILKARKSATVNLVIRCPQDT 216  
DB 180 GTPGSVESTLTLPFSHDDGATFVCARASQALPTGRDTAITLSLQYPPVET 230

## RESULT 14

US-10-174-590-584  
; Sequence 584, Application US/10174590  
; Publication No. US20030008352A1  
; GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.  
APPLICANT: Chen, Jian  
APPLICANT: Debnoyers, Luc  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Gurney, Austin L.  
APPLICANT: Smith, James  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
FILE REFERENCE: P3430R1C42  
CURRENT APPLICATION NUMBER: US/10/174,590  
PRIORITY FILING DATE: 2002-06-18  
Prior application removed - See File Wrapper or Palm  
NUMBER OF SEQ ID NOS: 612  
SEQ ID NO 584  
LENGTH: 708  
TYPE: PRT  
ORGANISM: Homo Sapien  
US-10-174-590-584

Query Match 6.6%; Score 136; DB 14; Length 708;  
Best Local Similarity 23.8%; Pred. No. 0.021;  
Matches 55; Conservative 40; Mismatches 106; Indels 30; Gaps 10;

QY 3 LVIFLHSGSGNEVIEGQNAVTVKSGQARFNCTVSGMKLIMVALSDMVLSVRMEPI 62  
DB 13 LFCFRGRAGSPHFLQOPEDLVLLGEBARLPCALGAYWGLVQWTKSGLALGGQR----- 67  
QY 63 ITNDRFTSORYDOGNFTS---EMIIHNVPSDSGNIRCSLQNSRLHG-SAYLTV----- 113  
DB 68 ---DLPGMSRWISGMNANGQHDHIRPVELDEASVECOATQAGLRSPQQLHVLVPE 124  
QY 114 --QVMGELFIPSVNLVVAENEPCEVTCCLPSHWTR-LPDISW-ELGLVSHSSY--FVPE 167  
DB 125 APQVLGG--PSVSLVA--GVPAWLTCRSRGDARPTPELLMFRDGVLLDGAFTHQTLKE 179  
QY 168 --PSDLQSAVSIILATPQSNGLTLCVATWKSILKARKSATVNLVIRCPQDT 216  
DB 180 GTPGSVESTLTLPFSHDDGATFVCARASQALPTGRDTAITLSLQYPPVET 230

## RESULT 15

US-10-176-758-584  
; Sequence 584, Application US/10176758  
; Publication No. US20030008353A1  
; GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.  
APPLICANT: Chen, Jian  
APPLICANT: Debnoyers, Luc  
APPLICANT: Goddard, Audrey  
APPLICANT: Gurney, Austin L.  
APPLICANT: Smith, James  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
FILE REFERENCE: P3430R1C104  
CURRENT APPLICATION NUMBER: US/10/176,758  
PRIORITY FILING DATE: 2002-06-21  
Prior application removed - See File Wrapper or Palm  
NUMBER OF SEQ ID NOS: 612  
SEQ ID NO 584  
LENGTH: 708  
TYPE: PRT  
ORGANISM: Homo Sapien  
US-10-176-758-584

Query Match 6.6%; Score 136; DB 14; Length 708;  
Best Local Similarity 23.8%; Pred. No. 0.021;  
Matches 55; Conservative 40; Mismatches 106; Indels 30; Gaps 10;

QY 3 LVIFLHSGSGNEVIEGQNAVTVKSGQARFNCTVSGMKLIMVALSDMVLSVRMEPI 62  
DB 13 LFCFRGRAGSPHFLQOPEDLVLLGEBARLPCALGAYWGLVQWTKSGLALGGQR----- 67  
QY 63 ITNDRFTSORYDOGNFTS---EMIIHNVPSDSGNIRCSLQNSRLHG-SAYLTV----- 113  
DB 68 ---DLPGMSRWISGMNANGQHDHIRPVELDEASVECOATQAGLRSPQQLHVLVPE 124  
QY 114 --QVMGELFIPSVNLVVAENEPCEVTCCLPSHWTR-LPDISW-ELGLVSHSSY--FVPE 167  
DB 125 APQVLGG--PSVSLVA--GVPAWLTCRSRGDARPTPELLMFRDGVLLDGAFTHQTLKE 179  
QY 168 --PSDLQSAVSIILATPQSNGLTLCVATWKSILKARKSATVNLVIRCPQDT 216  
DB 180 GTPGSVESTLTLPFSHDDGATFVCARASQALPTGRDTAITLSLQYPPVET 230

Search completed: February 22, 2005, 19:55:31  
Job time : 74.4939 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: February 22, 2005, 18:19:05 ; Search time 18.8683 Seconds  
(without alignment)  
1511.316 Million cell updates/sec

Title: US-09-729-264-2

Perfect score: 2059  
Sequence: 1 MGVIPLHSGSGNEVIEGP.....HPQASFNILASPEKVSNTTV 382

Scoring table:  
BLOSUM62  
Gapop 10.0, Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:  
1: /cgn2\_6/ptodata/1/1aa/5A.COMB.pep:\*  
2: /cgn2\_6/ptodata/1/1aa/5B.COMB.pep:\*  
3: /cgn2\_6/ptodata/1/1aa/6A.COMB.pep:\*  
4: /cgn2\_6/ptodata/1/1aa/6B.COMB.pep:\*  
5: /cgn2\_6/ptodata/1/1aa/PCTUS.COMB.pep:\*  
6: /cgn2\_6/ptodata/1/1aa/Backfile1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	147.5	7.2	404	US-09-638-649-3	Sequence 3, Appl1
2	147.5	7.2	404	US-09-949-016-11025	Sequence 11025, A
3	147.5	7.2	404	US-09-638-648-3	Sequence 3, Appl1
4	142	6.9	405	US-08-755-235-4	Sequence 4, Appl1
5	128.5	6.2	1345	US-08-977-767-3	Sequence 3, Appl1
6	128	6.2	1447	US-09-041-886-25	Sequence 25, Appl1
7	128	6.2	1447	PCT-US94-05277-2	Sequence 2, Appl1
8	128	6.2	1953	US-09-917-254-92	Sequence 92, Appl1
9	126.5	6.1	869	US-08-374-834-16	Sequence 16, Appl1
10	126.5	6.1	869	US-08-644-271-29	Sequence 29, Appl1
11	126.5	6.1	869	US-09-077-955-33	Sequence 33, Appl1
12	125.5	6.1	869	US-09-715-249-8	Sequence 8, Appl1
13	124	6.0	1070	US-09-961-403-3	Sequence 3, Appl1
14	123.5	6.0	332	US-09-062-365-1	Sequence 1, Appl1
15	123.5	5.9	340	US-09-651-200-2	Sequence 2, Appl1
16	123.5	5.9	441	US-09-651-200-4	Sequence 4, Appl1
17	122.5	5.9	445	US-09-949-016-6949	Sequence 6949, Ap
18	122.5	5.9	455	US-09-949-016-11026	Sequence 11026, A
19	122	5.9	313	US-09-700-397-4	Sequence 4, Appl1
20	122	5.9	344	US-09-700-397-3	Sequence 3, Appl1
21	121.5	5.9	534	US-09-651-200-6	Sequence 6, Appl1
22	121.5	5.9	534	US-09-651-200-24	Sequence 24, Appl1
23	120	5.8	83	US-09-270-767-37272	Sequence 37272, A
24	120	5.8	83	US-09-270-767-52489	Sequence 52489, A
25	118.5	5.8	318	US-08-633-148-4	Sequence 4, Appl1
26	118.5	5.8	340	US-08-633-148-2	Sequence 2, Appl1
27	117	5.7	325	US-09-651-200-20	Sequence 20, Appl1

28	116	5.6	4391	4	US-10-006-011A-2	Sequence 2, Appl1
29	114.5	5.6	1461	4	US-09-976-594-531	Sequence 531, App
30	114	5.5	1395	3	US-09-540-245A-15	Sequence 15, Appl1
31	113.5	5.5	416	4	US-09-638-649-1	Sequence 1, Appl1
32	113.5	5.5	416	4	US-08-755-235-2	Sequence 2, Appl1
33	113.5	5.5	416	4	US-09-638-648-1	Sequence 1, Appl1
34	112	5.4	868	1	US-08-374-834-1	Sequence 1, Appl1
35	112	5.4	868	2	US-08-644-271-1	Sequence 1, Appl1
36	112	5.4	868	4	US-09-077-955-1	Sequence 1, Appl1
37	111	5.3	2732	4	US-09-086-436-30	Sequence 30, Appl1
38	110	5.3	689	3	US-09-499-964-1	Sequence 1, Appl1
39	109.5	5.3	316	4	US-09-910-174B-24	Sequence 24, Appl1
40	109.5	5.3	316	4	US-09-620-461-24	Sequence 24, Appl1
41	109.5	5.3	478	5	PCT-US95-08493-15	Sequence 15, Appl1
42	109.5	5.3	860	5	PCT-US95-08493-19	Sequence 19, Appl1
43	109.5	5.3	868	5	PCT-US95-08493-21	Sequence 21, Appl1
44	107.5	5.2	316	4	US-09-397-243D-13	Sequence 13, Appl1
45	107.5	5.2	362	1	US-08-415-751-6	Sequence 6, Appl1

ALIGNMENTS

RESULT 1  
US-09-638-649-3  
Sequence 3, Application US/09638649  
Patent No. 6563015  
GENERAL INFORMATION:  
APPLICANT: Stern, David M.  
APPLICANT: Schmidt, Ann Marie  
APPLICANT: Yan, Shi Du  
TITLE OF INVENTION: TRANSGENIC MICE OVER-EXPRESSING RECEPTOR FOR ADVANCED  
TITLE OF INVENTION: GLYCATION ENDPRODUCT (RAGE) AND MUTANT APP IN BRAIN AND  
FILE REFERENCE: 0575/62175  
CURRENT APPLICATION NUMBER: US/09/638,649  
CURRENT FILING DATE: 2000-08-14  
NUMBER OF SEQ ID NOS: 10  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 3  
LENGTH: 404  
TYPE: PRT  
ORGANISM: Human  
US-09-638-649-3

Query Match	7.2%; Score 147.5; DB 4; Length 404;
Best Local Similarity	22.6%; Pred. No. 8.1e-05;
Matches	85; Conservative 40; Mismatches 114; Indels 137; Gaps 18;
15	EVEBPQNAVTKGQARFNCVSG---WKLIMALSDMVLYSRPMFPIITNDRFS- 70
125	EIVDASELTA--GVPNKGTCVSGSYPA GTLSWHLGG-----KPLVNEKGVSV 173
71	---ORVQGGNFT--SEMIHNVPPSDGNIR-----CSLQSRILGSAVLTQVWGELE 120
174	KEQTRRHETGFTQSELM---VTPARGDPRPFSCFSGLRRHRLRTPAQPRW 230
121	IP---SYNLVAENP-----CEVTCLDSHWTRLPLDISWELGLVSHSSY 162
231	EVPLPEEVLVV---EPEGAVAPGVTLTCEVPAQS-----PQIHMKD----- 274
163	VYVPEPSDQASVSLTLPQNSGTLTCAVATKSLKAKRSATVNTVTRCPDGTGGINI 222
275	GVPLPLPPSPVLLPEIGPODQGVSCVATHSHGPOSRAVSIISLE-PEEKG----- 327
223	PGVLSLPSLGSFLPTWGVGLAGTMTLT-----PTCTLTTRCCCRRCGCGNCC 275
328	-----PTAGSVGSGIGTIALALGIGTATALLGIVLMQR----- 366
276	CRCCFCRRKRGFRIOFKKSEKERT--NKETETSGNENSGVNSDEQTTDASLPPKS 333
367	-----QRGEERKAPENQEEERAEIN----- 389

QY	334	CESDPEQRNSSCGPP	349
		: :	
Db	390	-QSEPEAGESSTGPP	404

RESULT 2  
US-09-949-016-11025  
; Sequence 11025, Application US/09949016  
; Patent No. 6812339

RESULT 3  
US-09-638-648-3  
; Sequence 3, Application US/09638648  
; Patent No. 6825164

```

1  TITLE OF INVENTION: ANGIOPATHY
2  FILE REFERENCE: 05/56209
3  CURRENT APPLICATION NUMBER: US/09/638,648
4  CURRENT FILING DATE: 2000-08-14
5  NUMBER OF SEQ ID NOS: 6
6  SOFTWARE: PatentIn Ver. 2.1
7  SEQ ID NO 3

```

Query Match	7.2%	Score 147.5;	DB 4;	length 404
Best Local Similarity	22.6%;	Pred. No. 8.1e-05;		
Matches	85;	Conservative	40;	Mismatches 114; Indels 137

```

RESULT 4
US-08-755-235-4
; Sequence 4, Application US/08755235
; Patent No. 6790443
; GENERAL INFORMATION:
; APPLICANT: Stern, David M.
; APPLICANT: Schmidt, Ann Marie
; APPLICANT: Wu, Jun
; TITLE OF INVENTION: METHOD FOR TREATING S
; FILE REFERENCE: 05/5/50159
; CURRENT APPLICATION NUMBER: US/08/755,235
; CURRENT FILING DATE: 1996-11-22
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 4
; LENGTH: 405
; TYPE: PRT
; ORGANISM: Human
US-08-755-235-4

```

Query Match	6.9%;	Score 142;	DB 4;	Length 405
Best Local Similarity	22.8%;	Pred. No. 0.00025;		
Matches	86;	Conservative	40;	Mismatches 113.



```

1      RESULT 5
2      US-08-977-767-3
3      : Sequence 3, Application US/08977767
4      : Patent No. 5972684
5      : GENERAL INFORMATION:
6      : APPLICANT: Bandman, Olga
7      : APPLICANT: Yue, Henry
8      : APPLICANT: Greenwald, Sara
9      : APPLICANT: Corley, Neil C.
10     : TITLE OF INVENTION: CARBONIC ANHYDRASE VIII
11     : NUMBER OF SEQUENCES: 3
12     : CORRESPONDENCE ADDRESS:
13     : ADDRESSEE: Incyte Pharmaceuticals, Inc.
14     : STREET: 3174 Porter Drive
15     : CITY: Palo Alto
16     : STATE: CA
17     : COUNTRY: USA
18     : ZIP: 94304
19     : COMPUTER READABLE FORM:
20     : MEDIUM TYPE: Diskette
21     : COMPUTER: IBM Compatible
22     : OPERATING SYSTEM: DOS
23     : SOFTWARE: FASTSEQ for Windows Version 2.0
24     : CURRENT APPLICATION DATA:
25     : APPLICATION NUMBER: US/08/977,767
26     : FILING DATE: Herewith
27     : CLASSIFICATION: 424
28     : PRIOR APPLICATION DATA:
29     : APPLICATION NUMBER:
30     : FILING DATE:
31     : ATTORNEY/AGENT INFORMATION:
32     : NAME: Billings, Lucy J.
33     : REGISTRATION NUMBER: 36,749
34     : REFERENCE/DOCKET NUMBER: PF-0423 US
35     : TELECOMMUNICATION INFORMATION:
36     : TELEPHONE: 650-855-0555
37     : TELEFAX: 650-845-4166
38     : TELEX:
39     : INFORMATION FOR SEQ ID NO: 3:
40     : SEQUENCE CHARACTERISTICS:
41     : LENGTH: 1345 amino acids
42     : TYPE: amino acid
43     : STRANDEDNESS: single
44     : TOPOLOGY: linear
45     : IMMEDIATE SOURCE:
46     : LIBRARY: GenBank
47     : CLONE: 1532042
48     : US-08-977-767-3

```

```

RESULT 6
US-09-041-886-25
Sequence 25, Application US/09041886
Patent No. 6235872
GENERAL INFORMATION:
APPLICANT: Bredesen, Dale E.
APPLICANT: Rabadzen, Shairoz
TITLE OF INVENTION: Proapoptotic Peptides, Dependence
TITLE OF INVENTION: Polypeptides and Methods of Use
NUMBER OF SEQUENCES: 72
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: United States
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/041,886
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LJ 2626
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 1447 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-041-886-25

Query Match          6.2%: Score 128; DB 3; Length 1447;
Best Local Similarity 24.8%; Pred. No. 0.026; 99; Indels 50; Gaps 10
Matches    60; Conservative   33; Mismatches

QY      10 SGSNGEV-----IEGPONATVLKSGSQARFNCTVSQG--KLIMNALSDM 51
|       |::|||              ::|||              ::|||
Db      220 SRITNEAEVRILSDPGHLRQLYFLQRPENVAIIEKDAVLEECVS-GVPPEPFTWLGRBE 278

QY      52 VVLVSRRMEPIITTDRTFSQRYYDDGAGNTSEMIITHNVPSDSGNIR-C-SLONSRLHGSA 109
|       |::|||              ::|||              ::|||
Db      279 VI-----QLRSKYSLLGG--SNLLISNTVDSDSGMYTCVTYNNENISASA 323

QY      110 YLTQVWNGELFIPSVNLIVVAENEPCEVEYICLPSSHMTRLDPDISW-ELGLLVSHSYFYFVEPP 168
|       |||               |||               |||
Db      324 ELTLYVPRFWPLNHSSNLXAYESMIDIEPTCVS-GKPVEYTVMMKNMGDVIIESDYFOIQYG 382

QY      169 SDLOSASVIALTPQSNGTLTCVAWTWSLKRAKSATVNLTVIRCPODTGGGINIDGVLS 228
|       |||               |||               |||

```

Db 383 SNLR-----ILGVKSDGFGYQVAVENAGNAQTSQILVFKPAIPSS-----VLPS 430  
QY 229 LP 230  
Db 431 AP 432

## RESULT 7

PCT-US94-05277-2  
Sequence 2, Application PC/TUS9405277  
GENERAL INFORMATION:  
APPLICANT: Bruskin, Arthur  
APPLICANT: Jarosz, David E.  
APPLICANT: Johnson, Karen  
APPLICANT: Kinzler, Kenneth W.  
APPLICANT: Vogelstein, Bert  
APPLICANT: Zdzienicka, James R.  
TITLE OF INVENTION: Antibodies Specific for DCC Gene Product  
NUMBER OF SEQUENCES: 2  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Banner, Birch, McKie & Beckett  
STREET: 1001 G Street, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20001  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US94/05277  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Kagan, Sarah A.  
REGISTRATION NUMBER: 32,141  
REFERENCE/DOCKET NUMBER: 01107.42709  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202.508.9100  
TELEFAX: 202.508.9299  
TELEX: 197430 BBMB UT  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1447 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULAR TYPE: protein  
PCT-US94-05277-2

Query Match 6.2%; Score 128; DB 5; Length 1447;  
Best Local Similarity 24.8%; Pred. No. 0.026;  
Matches 60; Conservative 33; Mismatches 99; Indels 50; Gaps 10;

QY 10 SGGSEV-----IEGPNATVLKSGQARFNCYTSQGW--KLIMWALSDM 51  
Db 220 SRTGNEAVRILSDPGLRQLYPLQRPSPNVVAIGKQAVLECCVS-GYPPPSSTWLRGE 278  
QY 52 VLVSVPMPEIITNDRFTSQRIDOGNFTSEMIHNVPEPSDSGNIRC--SLQNSRLHGS 109  
Db 279 VI-----QLSKSKYSLLG--SNLLISNTDDSDGMYTCVVTYKNENISASA 323  
QY 110 VLVTVQVNGELFIPSVNLVVAENEPCEVTCPLPSHWTRLPDISM-ELGLVSHSSYYVPEP 168  
Db 324 ELTVLVPMFPLNHSNLYAVESMDIEPECTVS-GKVPVIVNMKNQDVVIPSDFQIVG 382  
QY 169 SDLOSASVILATLQSNGLTCVATWKSLLARKSATVNLTVIRCPDGTGGGINIPGLASS 228  
Db 383 SNLR-----ILGVKSDGFGYQVAVENAGNAQTSQILVFKPAIPSS-----VLPS 430  
QY 229 LP 230

Db 431 AP 432

## RESULT 8

US-09-917-254-92  
Sequence 92, Application US/09917254  
Patent No. 6703204  
GENERAL INFORMATION:  
APPLICANT: Baak, Jan  
APPLICANT: Multer, George  
TITLE OF INVENTION: Prognostic Classification of Breast Cancer  
FILE REFERENCE: B0801/7224 (JPV)  
CURRENT APPLICATION NUMBER: US/09/917,254  
PRIOR FILING DATE: 2001-07-27  
PRIOR APPLICATION NUMBER: US 60/222,093  
NUMBER OF SEQ ID NOS: 102  
SOFTWARE: Patentin version 3.0  
SEQ ID NO 92  
LENGTH: 1953  
TYPE: PRT  
ORGANISM: Homo Sapiens  
US-09-917-254-92

Query Match 6.2%; Score 128; DB 4; Length 1953;  
Best Local Similarity 20.3%; Pred. No. 0.039;  
Matches 86; Conservative 58; Mismatches 149; Indels 130; Gaps 19;

QY 20 PGNATVLKSGQARFNCYTSQGW--KLIMWALSDMVLVSRPMPEIITNDRFTSQRIDOG 77  
Db 78 PNLCTIKGATVAFEGRV-RGYPEPQVTH-----RNGQPIITSGRFL--LDGCI 124  
QY 78 NPTSEMIHNVPEPSDSGNIRCSLQNSRLHGSAYLVTVQV-----MGEL 119  
Db 125 RGTFLVIAHVHEDGKTTCEATNG--SGAQVVELVVEGSAKQOGPVVSKTLGDR 182  
QY 120 FI-----PSV-----NLVVAENE--PCEVTCPLPSHWTRLPDISMELG- 154  
Db 183 FSASAVETRPISWGECPKFKATKLGRVVVVEGQMRFSCKITGRQ-----PQVTKLGN 237  
QY 155 LTVSHSSYYFVEPSDLSAVSILATLQSNGLTCVATWKSLLARKSA-----TVN 206  
Db 238 VPLQSPARVSVSEKNGMQ-VLEIHGVNODDVGYTCVLVNSGASMSAEISLQGLDSAN 296  
QY 207 LVVIRCPDPTGGGI-----NIPGVLSLPSLGFSLPTWKGVLGLAGTMLTPCTILIR 261  
Db 297 RSFVRETKATNSDVAKVETVNISSKSKLDSL----- 327  
QY 262 CCCRRRCOCGCCGCCRCRRGRFRIOQKSEKTKNETESGNEN--SGYNS 318  
Db 328 -----EAAKSKNCSSPQKSGPPVWANSQOPP-RESKLESCKDSPRTAQTP 375  
QY 319 DEQKTTDASLPKSCSSSDPEQNNSSCGPHQADQR-----PPRASHQOAFNLASPE 374  
Db 376 VLQKTSSSITLQAARVQ---PEPRAPGLVLSPEGGERKRPAPRPATFTPTROPGLASOD 432  
QY 375 KVS 377  
Db 433 VVS 435

## RESULT 9

US-08-374-834-16  
Sequence 16, Application US/08374834  
Patent No. 5656473  
GENERAL INFORMATION:  
APPLICANT: Valenzuela, et al.  
TITLE OF INVENTION: NOVEL TYROSINE KINASE RECEPTOR  
NUMBER OF SEQUENCES: 17  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Regeneron Pharmaceuticals, Inc.  
STREET: 777 Old Saw Mill River Road  
CITY: Tarrytown

STATE: New York  
COUNTRY: USA  
ZIP: 10591  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Releasee #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/374,834  
FILING DATE: 19-JAN-1995  
CLASSIFICATION: 435  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: US 08/095,658  
FILING DATE: 21-JUL-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Cobert, Robert J.  
REGISTRATION NUMBER: 36,108  
REFERENCE/DOCKET NUMBER: REG 190A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (914) 345-7400  
TELEFAX: (914) 345-7721  
INFORMATION FOR SEQ ID NO: 16:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 869 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: unknown  
MOLECULE TYPE: protein  
US-08-374-834-16

Query Match 6.1%; Score 126.5; DB 1; Length 869;  
Best Local Similarity 20.9%; Pred. No. 0.017;  
Matches 86; Conservative 51; Mismatches 176; Indels 99; Gaps 19;

15 EVIEGPNATVLKSGARFNCCTVSGQWK-LIMMALSDMVVLVSRPMEPIITNDRTFSQRY 73  
122 KITRPINVKIIEGLKAVLPCTTMGNPKPSVSMIKGD-----SPLRENSRIAVLE- 171  
74 DOGNGFTSEMIHNVPSDSGNIRCSLONSRLHGSAY-LTVQVMBELFTPSVNLVVAENE 132  
172 -----SGSLRIHNVQKEDAGQYRCVAKNSL--GTAYSKVKLEVEVFARILRAPESHNV 223  
133 P-----CEVTCLEPSHMTRLPDISW-ELGILLVSHSYFYFPEPBDLOSANSIALLTQ 183  
224 TEGSFVTLHCTATGIP-----VPTITWINGNAVSSGSIQESVKORVIDSRLOLFTTKP- 277  
184 SNGTLTCVAT-----WKSARKSATVNLTVIRCPDPTGGG-----INIPGVLSLP 230  
278 --GLYTCLINTNGKGEKFTAKAAATISIAEMSKPKQDNKGCAQYRGVCMNAVLAADALV 335  
231 SLGFSL-----PTWGRVGLAGTMLLPPTCTLTTRCCCRRCGCGN----- 273  
336 PLNTSYADBEAQLLVHTAMNEL-----KVSPVCRPAEALLCNHIFQECSPGVVP 388  
274 ----CCCRCC-----FCRRRKGFRIRIQOKSEKKTNETETBEGNENSGVNSPEQKT 323  
389 TPPIRCREYCLAVKELFCAKE---WLVMEKTHRGLYRSEMHLLSVPECSKLPSPHMDP 444  
324 TDTASLPKSCSSDPEGRNSSCGPHQADQRP-----PRPASHPOASEFNLA 371  
445 TACARLP-----HLDYKNENLKTFFP--MTSSKPSVDIPNLPSSSSSSFSVS 489

RESULT 10  
US-08-644-271-29  
Sequence 29, Application US/08644271  
Patent No. 5814478  
GENERAL INFORMATION:  
APPLICANT: Valenzuela, et al.  
TITLE OF INVENTION: NOVEL TYROSINE KINASE RECEPTORS  
TITLE OF INVENTION: AND LIGANDS  
NUMBER OF SEQUENCES: 32

CORRESPONDENCE ADDRESS:  
ADDRESSEE: Regeneron Pharmaceuticals, Inc.  
STREET: 777 Old Saw Mill Road  
CITY: Tarrytown  
STATE: NY  
COUNTRY: USA  
ZIP: 10591  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/644,271  
FILING DATE: 10-MAY-1996  
CLASSIFICATION: 435  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: USN 60/008,657  
FILING DATE: 15-DEC-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Cobert, Robert J.  
REGISTRATION NUMBER: 36,108  
REFERENCE/DOCKET NUMBER: REG 195A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 914-345-7400  
TELEFAX: 914-345-7721  
TELEX:  
INFORMATION FOR SEQ ID NO: 29:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 869 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: unknown  
MOLECULE TYPE: protein  
US-08-644-271-29

Query Match 6.1%; Score 126.5; DB 2; Length 869;  
Best Local Similarity 20.9%; Pred. No. 0.017;  
Matches 86; Conservative 51; Mismatches 176; Indels 99; Gaps 19;

15 EVIEGPNATVLKSGARFNCCTVSGQWK-LIMMALSDMVVLVSRPMEPIITNDRTFSQRY 73  
122 KITRPINVKIIEGLKAVLPCTTMGNPKPSVSMIKGD-----SPLRENSRIAVLE- 171  
74 DOGNGFTSEMIHNVPSDSGNIRCSLONSRLHGSAY-LTVQVMBELFTPSVNLVVAENE 132  
172 -----SGSLRIHNVQKEDAGQYRCVAKNSL--GTAYSKVKLEVEVFARILRAPESHNV 223  
133 P-----CEVTCLEPSHMTRLPDISW-ELGILLVSHSYFYFPEPBDLOSANSIALLTQ 183  
224 TEGSFVTLHCTATGIP-----VPTITWINGNAVSSGSIQESVKORVIDSRLOLFTTKP- 277  
184 SNGTLTCVAT-----WKSARKSATVNLTVIRCPDPTGGG-----INIPGVLSLP 230  
278 --GLYTCLINTNGKGEKFTAKAAATISIAEMSKPKQDNKGCAQYRGVCMNAVLAADALV 335  
231 SLGFSL-----PTWGRVGLAGTMLLPPTCTLTTRCCCRRCGCGN----- 273  
336 PLNTSYADBEAQLLVHTAMNEL-----KVSPVCRPAEALLCNHIFQECSPGVVP 388  
274 ----CCCRCC-----FCRRRKGFRIRIQOKSEKKTNETETBEGNENSGVNSPEQKT 323  
389 TPPIRCREYCLAVKELFCAKE---WLVMEKTHRGLYRSEMHLLSVPECSKLPSPHMDP 444  
324 TDTASLPKSCSSDPEGRNSSCGPHQADQRP-----PRPASHPOASEFNLA 371  
445 TACARLP-----HLDYKNENLKTFFP--MTSSKPSVDIPNLPSSSSSSFSVS 489

RESULT 11  
US-09-077-955-33  
Sequence 33, Application US/09077955A  
Patent No. 6413740

```

; GENERAL INFORMATION:
; APPLICANT: Valenzuela et al., David M.
; TITLE OF INVENTION: NOVEL TYROSINE KINASE RECEPTORS AND LIGANDS
; FILE REFERENCE: REG195-B-PCT-US
; CURRENT APPLICATION NUMBER: US/09/077,955A
; EARLIER FILING DATE: 1998-09-10
; EARLIER APPLICATION NUMBER: PCT/US96/20696
; EARLIER FILING DATE: 1996-12-13
; EARLIER APPLICATION NUMBER: 08/644,271
; EARLIER FILING DATE: 1996-05-10
; EARLIER APPLICATION NUMBER: 60/008,657
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 33
; LENGTH: 869
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-077-955-33

```

```

Query Match      6.1%; Score 126.5; DB 4; Length 869;
Best Local Similarity 20.9%; Pred. No. 0.017;
Matches 86; Conservative 51; Mismatches 176; Indels 99; Gaps 19;

```

```

QY 15 EVIEGQNAVTLKSGQARFNCVTSQGMK-LIMWALSDMVVLSVRPMEPIITNDRFISQRY 73
DB 122 KITRPINVKIIEGLKAVLPCTMGNPKPSVSWIKG-----SPLKNSRIAYLE- 171
QY 74 DQGNFTSEMIHNVSPDSGNIRCSLONSLHSAV-LTVQVMGELFIPSVNLVAENE 132
DB 172 -----SGSLRIHVQKEDAGQYRCVAKNSL--GTAVSKYVKLEFEVFAIRILRAPESHNV 223
QY 133 P-----CEVTLPSHMTSLPDISW-ELGLVSHSYFVPEPSDLSAVALTTPO 183
DB 224 TFGSFVTLHCTATGIP-----VPTITWIEGNNAVSSGSIQESVKDVIDSRLOLFTTKP- 277
QY 184 SNGTLTCVAT-----WKSILKARKSATVNLTVIRCPDPTGG-----INPGLVSLIP 230
DB 278 --GLYTCAIATNKGEKSTAKAATTSIAEMSKPOKONKGYCAQYRGVCNVALKADLV 335
QY 231 SLGSL-----PWGCVGLAGLMTLTPCTLTTRCCCRRCGCGN----- 273
DB 336 FLMTSTADPEAOELLVHTAMLEL-----KVSPVCPAPAEALLCNHIIPECCSPGVVP 388
QY 274 -----CCCRCC-----FCCRKRKGRIQPKKSEKKTETETESGNENSGYNSDEQKT 323
DB 389 TPIPCREYCLAVKELFCAKE-----WLVMEKTHRGLYRSEMHLLSVPECKSLPSMHWDP 444
QY 324 TDTASLPKSCSSSDPEQNSSCGPPHORADQP-----PRPASHPOAGFNLA 371
DB 445 TACARLP-----HLDYKNKENLKTFRP--MTSSKSPVVDIPNLPSSSSSSSFVS 489

```

```

RESULT 12
US-09-715-249-8
; Sequence 8, Application US/09715249
; Patent No. 6780614
; GENERAL INFORMATION:
; APPLICANT: NOVARTIS AG
; APPLICANT: VERES, GABOR
; APPLICANT: PIPPIG, SUSANNE
; TITLE OF INVENTION: selectable cell surface marker genes
; FILE REFERENCE: 4-31192
; CURRENT APPLICATION NUMBER: US/09/715, 249
; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: us 60/166594
; PRIOR FILING DATE: 1999-11-19
; PRIOR APPLICATION NUMBER: us 09/539248
; NUMBER OF SEQ ID NOS: 2000-03-30
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 8
; LENGTH: 869

```

```

; TYPE: PRT
; ORGANISM: MUSK
; US-09-715-249-8

```

```

Query Match      6.1%; Score 125.5; DB 4; Length 869;
Best Local Similarity 24.5%; Pred. No. 0.021;
Matches 54; Conservative 32; Mismatches 93; Indels 41; Gaps 10;

```

```

QY 15 EVIEGQNAVTLKSGQARFNCVTSQGMK-LIMWALSDMVVLSVRPMEPIITNDRFISQRY 73
DB 122 KITRPINVKIIEGLKAVLPCTMGNPKPSVSWIKG-----SPLKNSRIAYLE- 171
QY 74 DQGNFTSEMIHNVSPDSGNIRCSLONSLHSAV-LTVQVMGELFIPSVNLVAENE 132
DB 172 -----SGSLRIHVQKEDAGQYRCVAKNSL--GTAVSKYVKLEFEVFAIRILRAPESHNV 223
QY 133 P-----CEVTLPSHMTSLPDISW-ELGLVSHSYFVPEPSDLSAVALTTPO 183
DB 224 TFGSFVTLHCTATGIP-----VPTITWIEGNNAVSSGSIQESVKDVIDSRLOLFTTKP- 277
QY 184 SNGTLTCVAT-----WKSILKARKSATVNLTVIRCPDPTGG 219
DB 278 --GLYTCAIATNKGEKSTAKAATTSIAEMSKPOKONK 315

```

```

RESULT 13
US-09-961-403-3
; Sequence 3, Application US/09961403
; Patent No. 6780594
; GENERAL INFORMATION:
; APPLICANT: HE-STUMP, HOLGER
; APPLICANT: HANDELER, BERNARD
; APPLICANT: KRAETZSCHMAR, JOERN
; APPLICANT: KREFT, BERTHOLT
; APPLICANT: WINTERHAGER, ELKE
; APPLICANT: REGIDOR, PEDRO
; APPLICANT: SCOTTI, SIMONE
; TITLE OF INVENTION: METHOD FOR IN VITRO DIAGNOSIS OF ENDOMETRIOSIS
; FILE REFERENCE: SCH-1789
; CURRENT APPLICATION NUMBER: US/09/961,403
; NUMBER OF SEQ ID NOS: 2001-09-25
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 1070
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-961-403-3

```

```

Query Match      6.0%; Score 124; DB 4; Length 1070;
Best Local Similarity 25.3%; Pred. No. 0.038;
Matches 58; Conservative 32; Mismatches 103; Indels 36; Gaps 10;

```

```

QY 16 VIEGQNAVTLKSGQARFNCVTS-QGMKLMWALSDMVVLSVRPMEPIITNDRFISQRYD 74
DB 227 VTLAPQDVVARYEBAEMHCFQSAQPPPSLQWLFEDBTPITNSRPHILARATVFA----- 282
QY 75 QGNFTSEMIHNVSPDSGNIRCSLONSR-----LHGSAYLTVQVMGELFIPSVNLVA 129
DB 283 -----NSGSLITQVRPNAAGIYRCIGQGQGPPIILEATLHLEIDMPLFEPRVFTAGS 337
QY 130 ENPECEVTCLPSHMTSLPDISW-LGL-LVSHSYFVPEPSDLSAVALTTPOSN-G 186
DB 338 EE---RYTCLPPEKGLPEPSVWMEHAGVRLPTHORY-----QKHELVLANIASDAG 387
QY 187 TLTCAVATKSLKARKSATVNLTV-----IRCPQDTGGGINIPGVLSL 229
DB 388 VYTHAA--NLAQGRQDVNITVATVPSWLKKPKDSQLEBCKRGYDCL 434

```

```

RESULT 14
US-09-062-365-1
; Sequence 1, Application US/09062365

```

Patent No. 6465422  
GENERAL INFORMATION:  
APPLICANT: Schmidt, Ann Marie  
APPLICANT: Steirn, David  
TITLE OF INVENTION: METHOD FOR INHIBITING TUMOR INVASION OR SPREADING IN A  
FILE OF INVENTION: SUBJECT  
FILE REFERENCE: 55424  
CURRENT APPLICATION NUMBER: US/09/062,365  
CURRENT FILING DATE: 1998-04-17  
NUMBER OF SEQ ID NOS: 6  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 1  
LENGTH: 332  
TYPE: PRT  
ORGANISM: Human  
US-09-062-365-1

Query Match 6.0%; Score 123.5; DB 4; Length 332;  
Best Local Similarity 24.1%; Pred. No. 0.0085;  
Matches 65; Conservative 33; Mismatches 89; Indels 83; Gaps 14;

QY 15 EVIEGPNATV LKSGARFNCTVSOG---WKLIMALSDMWVLSVRPMEPIITNDRFTS- 70  
DB 103 EIVDSASELTA--GVPNKVGTCSSEGSYPAGTSLSMHLDG-----KPLVENEKGSV 151  
QY 71 ---QRYDQGNT--SEMIHNVPSDSGNIR---CSLQNSRLHGSAYLTQVMGELF 120  
DB 152 KEQTRHHPETGLTQSELM---VTPARGDPRPTSCSPSPGLPHRRALRTAPRPRW 208  
QY 121 IP---SVNLVVAENP-----CEVTLCPSHWTLPLDISWELGLVSHSV 162  
DB 209 EPVPLEEVQLV--EPEGAVAPGCTVTLTCEVPAPPS-----PQIHMKD----- 252  
QY 163 YFVPEPSDLSQAVSILALTPQSNGLTCVATWKS LKARKSATVNLTVIRCPDPTGGINI 222  
DB 253 -GVPLPLPSPVLLPEIGPDQGTYSVATHSHGQESRAVSITIE-PGEEG----- 305  
QY 223 PGVLSLPSLGSPLPTWGVKVGGLAGTMLL 252  
DB 306 -----PTAGSVGSGGLGTLL 321

## RESULT 15

US-09-651-200-2  
Sequence 2, Application US/09651200  
Patent No. 6429303  
GENERAL INFORMATION:  
APPLICANT: Green et al  
TITLE OF INVENTION: Polynucleotides Encoding Members of the Human B  
TITLE OF INVENTION: Lymphocyte Activation Antigen B-7 Family and  
FILE REFERENCE: 15966-562 (CURA-62)  
CURRENT APPLICATION NUMBER: US/09/651,200  
CURRENT FILING DATE: 2000-08-30  
PRIOR APPLICATION NUMBER: 60/152383  
PRIOR FILING DATE: 1999-09-03  
PRIOR APPLICATION NUMBER: 60/172909  
PRIOR FILING DATE: 1999-12-21  
PRIOR APPLICATION NUMBER: 60/183578  
PRIOR FILING DATE: 2000-02-18  
NUMBER OF SEQ ID NOS: 25  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 2  
LENGTH: 340  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-651-200-2

Query Match 5.9%; Score 122.5; DB 4; Length 340;  
Best Local Similarity 21.2%; Pred. No. 0.011;  
Matches 77; Conservative 50; Mismatches 128; Indels 109; Gaps 17;

QY 10 SSGSNEVIEGPNATV LKSGARFNCTVS--QGWKL-----IMWALSDMWVLSVRPMEPI 62

DB 48 SPFGAVEVQVEDPVALVGTDTATHCSFSPERFSLQDNLIMQLTDTKQV----- 100  
QY 63 ITNDRFTSQRYDQGNF-----TSEMIHNVPSDSGNIRCSLQNSRLHGS 108  
DB 101 ---HSFTGR-DQGSAYANRTALFPDLLAQNASLRLQVRVADEGSFTCFV-SIRDFGS 155  
QY 109 AILTVVMGELFIPSNLV---VAENPCVTLCPSHWTRLP--DISWELGL--LVSH 159  
DB 156 AAVSLQVAPYKSPSTLEPNKDLRPGDVTITC--SSYRGYPEAEVFWQDGGVPLTGN 213  
QY 160 SSYTFVPEPSDLSQAVSILALTPQSNGLTCVATWKS LKARKSATVNLTVIRCP---OPT 216  
DB 214 VTTSQMANEGCLFDVHSLRVVLGANGTISC-----LVANPVUQDA 255  
QY 217 GGGINIPGVLSLPSLGSPLPTWGVKVGGLAGTMLLTPCTVLTIRCCCRRCGCCGCC 276  
DB 256 HGSVTLTGGPMTFFPEAL---WVTVGLSVCLIALLV----- 288  
QY 277 RCFCCRRKRGFRIOQKSEKTKYKETEESGNENSGYNSDEQKTTDTASLPKSCS 336  
DB 289 ALAFVCMRK-----IKQSCBENAGAEQDQ-----EGGSXTALQPLKHS 331  
QY 337 SDPE 340  
DB 332 KEDD 335

Search completed: February 22, 2005, 19:36:00  
Job time : 20.8683 secs

**This Page Blank (uspto)**







[illegible][illegible]

## RESULT 10

```
US-09-491-356C-14/C
; Sequence 14, Application US/09491356C
; Patent No. 6566061
; GENERAL INFORMATION:
; APPLICANT: Philibert, Robert A.
; APPLICANT: Ghins, Edward I.
; APPLICANT: Delist, Lynn
; TITLE OF INVENTION: IDENTIFICATION OF POLYMORPHISMS IN THE PCTG4 REGION OF XQ13
; FILE REFERENCE: 9465.6US11
; CURRENT APPLICATION NUMBER: US/09/491,356C
; CURRENT FILING DATE: 2000-01-26
; PRIOR APPLICATION NUMBER: PCT/US99/09365
; PRIOR FILING DATE: 1999-04-29
; PRIOR APPLICATION NUMBER: 60/083,465
; PRIOR FILING DATE: 1998-04-29
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 14
; LENGTH: 265
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-491-356C-14
```

```
Query Match
Best Local Similarity 3.8%; Score 44.8; DB 4; Length 265;
Matches 52; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
```

```
QY 801 GCTGCTGCTGCTGCGCCGCTGTTGTTGCTGCAACTGCTGCTGTTGTTCT 860
DB 158 GCTGTTGCTGCTGCTGCTGTTGCTGTTGCTGCTGCTGCTGCTGCTGCTGCT 99
QY 861 GCTG 864
DB 98 GCTG 95
```

```
RESULT 11
US-09-491-356C-16/C
; Sequence 16, Application US/09491356C
; Patent No. 6566061
; GENERAL INFORMATION:
; APPLICANT: Philibert, Robert A.
; APPLICANT: Ghins, Edward I.
; APPLICANT: Delist, Lynn
; TITLE OF INVENTION: IDENTIFICATION OF POLYMORPHISMS IN THE PCTG4 REGION OF XQ13
; FILE REFERENCE: 9465.6US11
; CURRENT APPLICATION NUMBER: US/09/491,356C
; CURRENT FILING DATE: 2000-01-26
; PRIOR APPLICATION NUMBER: PCT/US99/09365
; PRIOR FILING DATE: 1999-04-29
; PRIOR APPLICATION NUMBER: 60/083,465
; PRIOR FILING DATE: 1998-04-29
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
; LENGTH: 265
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-491-356C-16
```

```
Query Match
Best Local Similarity 3.8%; Score 44.8; DB 4; Length 265;
Matches 52; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
```

```
QY 801 GCTGCTGCTGCTGCGCCGCTGTTGTTGCTGCAACTGCTGCTGTTGTTCT 860
DB 158 GCTGTTGCTGCTGCTGCTGTTGCTGTTGCTGCTGCTGCTGCTGCTGCTGCT 99
QY 861 GCTG 864
DB 98 GCTG 95
```

```
RESULT 12
US-09-491-356C-17/C
; Sequence 17, Application US/09491356C
; Patent No. 6566061
; GENERAL INFORMATION:
; APPLICANT: Philibert, Robert A.
; APPLICANT: Ghins, Edward I.
; APPLICANT: Delist, Lynn
; TITLE OF INVENTION: IDENTIFICATION OF POLYMORPHISMS IN THE PCTG4 REGION OF XQ13
; FILE REFERENCE: 9465.6US11
; CURRENT APPLICATION NUMBER: US/09/491,356C
; CURRENT FILING DATE: 2000-01-26
; PRIOR APPLICATION NUMBER: PCT/US99/09365
; PRIOR FILING DATE: 1999-04-29
; PRIOR APPLICATION NUMBER: 60/083,465
; PRIOR FILING DATE: 1998-04-29
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 17
; LENGTH: 265
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-491-356C-17
```

```
Query Match
Best Local Similarity 3.8%; Score 44.8; DB 4; Length 265;
Matches 52; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
```

```
QY 801 GCTGCTGCTGCTGCGCCGCTGTTGTTGCTGCAACTGCTGCTGTTGTTCT 860
DB 158 GCTGTTGCTGCTGCTGCTGTTGCTGTTGCTGCTGCTGCTGCTGCTGCTGCT 99
QY 861 GCTG 864
DB 98 GCTG 95
```

```
RESULT 13
US-09-491-356C-18/C
; Sequence 18, Application US/09491356C
; Patent No. 6566061
; GENERAL INFORMATION:
; APPLICANT: Philibert, Robert A.
; APPLICANT: Ghins, Edward I.
; APPLICANT: Delist, Lynn
; TITLE OF INVENTION: IDENTIFICATION OF POLYMORPHISMS IN THE PCTG4 REGION OF XQ13
; FILE REFERENCE: 9465.6US11
; CURRENT APPLICATION NUMBER: US/09/491,356C
; CURRENT FILING DATE: 2000-01-26
; PRIOR APPLICATION NUMBER: PCT/US99/09365
; PRIOR FILING DATE: 1999-04-29
; PRIOR APPLICATION NUMBER: 60/083,465
; PRIOR FILING DATE: 1998-04-29
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 18
; LENGTH: 265
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-491-356C-18
```

```
Query Match
Best Local Similarity 3.8%; Score 44.8; DB 4; Length 265;
Matches 52; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
```

```
QY 801 GCTGCTGCTGCTGCGCCGCTGTTGTTGCTGCAACTGCTGCTGTTGTTCT 860
DB 158 GCTGTTGCTGCTGCTGCTGTTGCTGTTGCTGCTGCTGCTGCTGCTGCTGCT 99
QY 861 GCTG 864
DB 98 GCTG 95
```



**This Page Blank (uspto)**

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 25, 2005, 00:36:18 ; Search time 820.175 Seconds  
(without alignments)  
8438.363 Million cell updates/sec

Title: US-09-729-264-3

Perfect score: 1168

Sequence: 1 agtgcattcgtgcgcagag.....gtaacacactgtagtag 1168

Scoring table: IDENTITY NUC  
dapp 10.0, Gapext 1.0

Searched: 5394803 seqs, 2962729879 residues

Total number of hits satisfying chosen parameters: 10789606

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:\*

1: /cgn2\_6/ptodata/1/pubna/US07\_PUBCOMB.seq:\*  
2: /cgn2\_6/ptodata/1/pubna/PCT\_NEW\_PUB.seq:\*  
3: /cgn2\_6/ptodata/1/pubna/US06\_NEW\_PUB.seq:\*  
4: /cgn2\_6/ptodata/1/pubna/US06\_PUBCOMB.seq:\*  
5: /cgn2\_6/ptodata/1/pubna/US07\_NEW\_PUB.seq:\*  
6: /cgn2\_6/ptodata/1/pubna/PCTUS\_PUBCOMB.seq:\*  
7: /cgn2\_6/ptodata/1/pubna/US08\_NEW\_PUB.seq:\*  
8: /cgn2\_6/ptodata/1/pubna/US08\_PUBCOMB.seq:\*  
9: /cgn2\_6/ptodata/1/pubna/US09\_PUBCOMB.seq:\*  
10: /cgn2\_6/ptodata/1/pubna/US09\_PUBCOMB.seq:\*  
11: /cgn2\_6/ptodata/1/pubna/US09\_PUBCOMB.seq:\*  
12: /cgn2\_6/ptodata/1/pubna/US09\_NEW\_PUB.seq:\*  
13: /cgn2\_6/ptodata/1/pubna/US10\_PUBCOMB.seq:\*  
14: /cgn2\_6/ptodata/1/pubna/US10\_PUBCOMB.seq:\*  
15: /cgn2\_6/ptodata/1/pubna/US10\_PUBCOMB.seq:\*  
16: /cgn2\_6/ptodata/1/pubna/US10\_PUBCOMB.seq:\*  
17: /cgn2\_6/ptodata/1/pubna/US10\_PUBCOMB.seq:\*  
18: /cgn2\_6/ptodata/1/pubna/US10\_PUBCOMB.seq:\*  
19: /cgn2\_6/ptodata/1/pubna/US10\_PUBCOMB.seq:\*  
20: /cgn2\_6/ptodata/1/pubna/US11\_NEW\_PUB.seq:\*  
21: /cgn2\_6/ptodata/1/pubna/US60\_PUBCOMB.seq:\*  
22: /cgn2\_6/ptodata/1/pubna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1119.6	95.9	2051	US-10-104-047-1104	Sequence 1104, Ap
2	269	23.0	474	US-09-918-995-3342	Sequence 3342, Ap
3	196.8	16.8	401	US-09-864-761-16305	Sequence 16305, A
4	136.2	11.7	9	US-09-983-965-4945	Sequence 4945, Ap
5	50.6	4.3	775	US-10-424-559-16675	Sequence 16675, A
6	47.6	4.1	381	US-10-357-930-54485	Sequence 54485, A
7	47.6	4.1	2733	US-10-384-107-1	Sequence 1, Appl
8	46	3.9	2706	US-10-620-514-4	Sequence 1, Appl
9	46	3.9	3577	US-10-008-739A-1	Sequence 1, Appl
10	46	3.9	11004	US-10-620-514-1	Sequence 1, Appl
11	45.4	3.9	542	US-10-425-115-122846	Sequence 122846,

C	12	45	3.9	1097	17	US-10-424-559-10899	Sequence 10899, A
C	13	45	3.9	1511	18	US-10-437-963-61590	Sequence 61590, A
C	14	44.8	3.8	616	17	US-10-242-535A-1932	Sequence 1932, Ap
C	15	44.8	3.8	616	17	US-10-085-783A-1932	Sequence 1932, Ap
C	16	44.8	3.8	1310	9	US-09-849-243-13	Sequence 13, Appl
C	17	44.8	3.8	1876	17	US-10-388-360-336	Sequence 336, App
C	18	44.8	3.8	2614	10	US-09-822-846-491	Sequence 491, App
C	19	44.8	3.8	3263	9	US-09-849-243-15	Sequence 15, Appl
C	20	44.8	3.8	4286	9	US-09-849-243-14	Sequence 14, Appl
C	21	44.8	3.8	5085	14	US-10-198-846-9854	Sequence 9854, Ap
C	22	44.8	3.8	5419	18	US-10-479-546-3	Sequence 3, Appl
C	23	44.8	3.8	6604	9	US-09-880-107-1748	Sequence 1748, Ap
C	24	44.6	3.8	1423	18	US-10-489-372-44	Sequence 44, Appl
C	25	44.4	3.8	139	18	US-10-674-124A-7619	Sequence 7619, Ap
C	26	44.4	3.8	376	18	US-10-674-124A-23575	Sequence 23575, A
C	27	44.4	3.8	513	18	US-10-357-930-47995	Sequence 47995, A
C	28	44.2	3.8	405	18	US-10-357-930-56357	Sequence 56357, A
C	29	44.2	3.8	1133	18	US-10-425-115-59679	Sequence 59679, A
C	30	44.2	3.8	1369	18	US-10-425-115-76568	Sequence 76568, A
C	31	44.2	3.8	2568	18	US-10-425-115-85301	Sequence 85301, A
C	32	44.2	3.8	2790	16	US-10-029-386-22626	Sequence 22626, A
C	33	44.2	3.8	7568	17	US-10-133-937-60	Sequence 60, Appl
C	34	44.2	3.8	7568	17	US-10-159-563-60	Sequence 60, Appl
C	35	44.2	3.8	7568	17	US-10-723-860-2203	Sequence 2203, Ap
C	36	44	3.8	299	10	US-09-814-353-4844	Sequence 4844, Ap
C	37	44	3.8	299	10	US-09-814-353-11141	Sequence 11141, A
C	38	44	3.8	385	10	US-09-814-353-5368	Sequence 5368, Ap
C	39	44	3.8	385	10	US-09-814-353-11655	Sequence 11655, A
C	40	44	3.8	455	9	US-09-728-444-151	Sequence 151, App
C	41	44	3.8	643	18	US-10-425-115-62705	Sequence 62705, A
C	42	43.8	3.8	1825	17	US-10-425-114-11473	Sequence 11473, A
C	43	43.8	3.8	1825	17	US-10-425-559-91736	Sequence 91736, A
C	44	43.8	3.8	8832	13	US-10-087-152-1699	Sequence 1699, Ap
C	45	43.6	3.7	405	18	US-10-425-115-9135	Sequence 9135, Ap

#### ALIGNMENTS

RESULT 1									
US-10-104-047-1104									
; Sequence 1104, Application US/10104047									
; Publication No. US20030236392A1									
GENERAL INFORMATION:									
; APPLICANT: HELIX RESEARCH INSTITUTE									
; TITLE OF INVENTION: No. US20030236392A1e1 full length cDNA									
; FILE REFERENCE: H1-A0105									
; CURRENT APPLICATION NUMBER: US/10/104,047									
; CURRENT FILING DATE: 2002-03-25									
; PRIOR APPLICATION NUMBER:									
; PRIOR FILING DATE:									
; NUMBER OF SEQ ID NOS: 4096									
; SOFTWARE: PatentIn Ver. 2.1									
; SEQ ID NO 1104									
; LENGTH: 2051									
; TYPE: DNA									
; ORGANISM: Homo sapiens									
US-10-104-047-1104									
Query Match									
Best Local Similarity 95.9%; Score 1119.6; DB 17; Length 2051;									
Matches 1122; Conservative 0; Mismatches 4; Indels 0; Gaps 0;									
QY	43	CGGTTCTGGGTGTGTAATGAAGTACAGAGCCCAAAATGCAAGTCTTGAAGG	102						
DB	202	CGGTTCTGGGTGTGTAATGAAGTACAGAGCCCAAAATGCAAGTCTTGAAGG	261						
QY	103	CTCCAGAGTCTGCTTCAATGCAAGTCTCCAGAGTCTGGAAGTCAATGAGGCTT	162						
DB	262	CTCCAGAGTCTGCTTCAATGCAAGTCTCCAGAGTCTGGAAGTCAATGAGGCTT	321						
QY	163	CAGTACATGAGTGTCTAAGGCTGAGGCCATCATCATCATGAGGCTT	222						

```

Db      322 CAGTGCATGCTGCTCTAAAGCTCAGGCCCATGAGCCCATCATCATCAACCATGACCGCTT 381
Qy      223 CACTCTCAGAGTACGACACGAGGCGGGAACCTTCACTGGGAGATATATCACAATGT 282
Db      382 CACTCTCAGAGTACGACACGAGGCGGGAACCTTCACTGGGAGATATATCACAAAAGT 441
Qy      283 GAGAGCCAGATGATTCGGGGGAACATCATGATGACGCTCCAGAAACAGTCCGCTCATGATC 342
Db      442 GAGAGCCAGATGATTCGGGGGAACATCATGATGACGCTCCAGAAACAGTCCGCTCATGATC 501
Qy      343 TCGTTCATCCATCCGCTCAAGTTATGAGAGAGCTGTTCAATCCCATGTTAATCTTGTAGT 402
Db      502 TCGTTCATCCATCCGCTCAAGTTATGAGAGAGCTGTTCAATCCCATGTTAATCTTGTAGT 561
Qy      403 CGCTGGAATGAAACCTTGGAAGTTACTTGTCTACCTTCACTGAGACCTGCTCCGGA 462
Db      562 CGCTGGAATGAAACCTTGGAAGTTACTTGTCTACCTTCACTGAGACCTGCTCCGGA 621
Qy      463 TATTTCTGGGAGCTCGGTCTCTGTCAGCCATTCAGCTAATTTTGTCCGAGCC 522
Db      622 TATTTCTGGGAGCTCGGTCTCTGTCAGCCATTCAGCTAATTTTGTCCGAGCC 681
Qy      523 CAGGACCTTCAAAAGTGAAGTGAATCTGCTGCTGACCCCAAGACCAATGGAATCTT 582
Db      682 CAGGACCTTCAAAAGTGAAGTGAATCTGCTGCTGACCCCAAGACCAATGGAATCTT 741
Qy      583 GACTTGGGCTGCTACCTGGAAGAGCTGAAGAGCCCGAAGTCTGCAATCTTAATCTCAC 642
Db      742 GACTTGGGCTGCTACCTGGAAGAGCTGAAGAGCCCGAAGTCTGCAATCTTAATCTCAC 801
Qy      643 TGTGATTCGCTGCTCCCAAGACATCTGAGAGTGTATTAATTTCAAGTGTATTTATCAAG 702
Db      802 TGTGATTCGCTGCTCCCAAGACATCTGAGAGTGTATTAATTTCAAGTGTATTTATCAAG 861
Qy      703 TTTTACGAGTTTAAAGTTTTCATTTGCTCTACTTGGGCAAAAGTTGACCTTGACAGAG 762
Db      862 TTTTACGAGTTTAAAGTTTTCATTTGCTCTACTTGGGCAAAAGTTGACCTTGACAGAG 921
Qy      763 CACCATGCTCTGACCGCCGACGCTGACTCTTCAATATGCTGCTGCTGCGCGCTG 822
Db      922 CACCATGCTCTGACCGCCGACGCTGACTCTTCAATATGCTGCTGCTGCGCGCTG 981
Qy      823 TTTGTTGGCTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 882
Db      982 TTTGTTGGCTGCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1041
Qy      883 TCGTATTCATTTCAAAAGAAATCTGAAAAGAGAAACAAACAAAGAACTGAGACAGA 942
Db      1042 TCGTATTCATTTCAAAAGAAATCTGAAAAGAGAAACAAACAAAGAACTGAGACAGA 1101
Qy      943 AAGTGAATGAAAACCTCCGCTACATTCAGATGAAACAAAGAACCAACACCGCTTC 1002
Db      1102 AAGTGAATGAAAACCTCCGCTACATTCAGATGAAACAAAGAACCAACACCGCTTC 1161
Qy      1003 TCTCCCTCCCAATCTCTGGAATTCAGATGCTGGAACAAAGAAAGAGTGTGAGCC 1062
Db      1162 TCTCCCTCCCAATCTCTGGAATTCAGATGCTGGAACAAAGAAAGAGTGTGAGCC 1221
Qy      1063 TCTTCACCAAGCGGCTGATCAAGTCCACCGAGCCGAGAAAGTATCCACAGGCTTCTT 1122
Db      1222 TCTTCACCAAGCGGCTGATCAAGTCCACCGAGCCGAGAAAGTATCCACAGGCTTCTT 1281
Qy      1123 TAATCTGGCGAGTCTGAGAAAGTCAAGTAATCAACTGTAGTAG 1168
Db      1282 TAATCTGGCGAGTCTGAGAAAGTCAAGTAATCAACTGTAGTAG 1227

```

## RESULT 2

```

US-09-918-995-3342
; Sequence 3342, Application US/09918995
; Publication No. US20030073623A1
; GENERAL INFORMATION:
; APPLICANT: Hyeeq, Inc.

```

```

; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
; FILE REFERENCE: FROM VARIOUS CDNA LIBRARIES
; CURRENT APPLICATION NUMBER: US/09/918,995
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US/09/235,076
; NUMBER OF SEQ ID NOS: 38054
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3342
; LENGTH: 474
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(474)
; OTHER INFORMATION: n = A,T,C or G
US-09-918-995-3342

```

```

Query Match      23.0%; Score 269; DB 10; Length 474;
Best Local Similarity 98.2%; Pred. No. 1e-68;
Matches 272; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

```

```

Qy      892 ATTTCAAAAGAAATCTGAAAAGAGAAACAAACAAAGAACTGAGACAGAAAGTGAAA 951
Db      54 ACTTTTAAAGAAATCTGAAAAGAGAAACAAACAAAGAACTGAGACAGAAAGTGAAA 113
Qy      952 TGAATACTCCGGCTCAATTCAGATGAAACAAAGACACAGACACCGCTTCTCCCTCC 1011
Db      114 TGAATACTCCGGCTCAATTCAGATGAAACAAAGACACAGAAACCGCTTCTCCCTCC 173
Qy      1012 CAATCTGATGATTCAGATGATCTGAAACAAAGAAACAGTACTGTGCTCTCCACCA 1071
Db      174 CAATCTGATGATTCAGATGATCTGAAACAAAGAAACAGTACTGTGCTCTCCACCA 233
Qy      1072 GCGGCGTATCAACGTCACCCAGGCGACAGTCAATCAAGGCTTCTTTAATCTGCC 1131
Db      234 GCGGCGTATCAACGTCACCCAGGCGACAGTCAATCAAGGCTTCTTTAATCTGCC 293
Qy      1132 CAGTCTGGAAGAGTCAGTAATACACTGTAGTAG 1168
Db      294 CAGTCTGGAAGAGTCAGTAATACACTGTAGTAG 330

```

## RESULT 3

```

US-09-864-761-16305
; Sequence 16305, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aecmeca-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263,6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664

```

```

; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 16305
; LENGTH: 401
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AF121782.1
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.9
US-09-864-761-16305
```

```

Query Match          16.8%; Score 196.8; DB 9; Length 401;
Best Local Similarity 96.6%; Pred. No. 2.2e-47;
Matches 201; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
```

```

QY 27 AAAAAAGAACCCACCGGCTTGGCTCGGTAAAGCAATGAAAGGCCCCCAAAAG 86
    |||||
DB 194 AATATGCTACCTTCCAGGTTCTGGTATGATGAAGCAATGAAAGGCCCCCAAAAG 253
    |||||
QY 87 CAAGAGTCTGAAGGCTCCAGAGCTCGCTTCAACTGCACCGCTCCAGAGGCTGGAAG 146
    |||||
DB 254 CAAGAGTCTGAAGGCTCCAGAGCTCGCTTCAACTGCACCGCTCCAGAGGCTGGAAG 313
    |||||
QY 147 TCATCATGTGGGCTCTCACTGACATGATGCTAAAGCGTCAAGGCCCATGAGCCCATCA 206
    |||||
DB 314 TCATCATGTGGGCTCTCACTGACATGATGCTAAAGCGTCAAGGCCCATGAGCCCATCA 373
    |||||
QY 207 TCACCAATGACCGCTTCACTTCAAG 234
    |||||
DB 374 TCACCAATGACCGCTTCACTTCAAG 401
    |||||
```

```

RESULT 4
US-09-983-965-4945
; Sequence 4945, Application US/09983965
; Patent No. US20020137160A1
; GENERAL INFORMATION:
; APPLICANT: Warren, Wesley C.
; APPLICANT: Tao, Nengbing
; APPLICANT: Byatt, John C.
; APPLICANT: Mathialagan, Nagappan
; TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
; FILE REFERENCE: 37-21(10297)C
; CURRENT APPLICATION NUMBER: US/09/983,965
; PRIOR FILING DATE: 2001-10-26
; PRIOR APPLICATION NUMBER: US 09/465,231
; PRIOR FILING DATE: 1999-12-15
; PRIOR APPLICATION NUMBER: US 60/113,678
; PRIOR FILING DATE: 1998-12-17
; NUMBER OF SEQ ID NOS: 5912
; SEQ ID NO 4945
```

```

; LENGTH: 398
; TYPE: DNA
; ORGANISM: Bos taurus
; FEATURE:
; OTHER INFORMATION: Clone ID: 26-LIB34-017-Q1-E1-G9
US-09-983-965-4945
```

```

Query Match          11.7%; Score 136.2; DB 9; Length 398;
Best Local Similarity 77.5%; Pred. No. 2e-29;
Matches 165; Conservative 0; Mismatches 48; Indels 0; Gaps 0;
```

```

QY 42 CCGGTTCTGGGCTGTGTAATGAAGTATGAAGGCCCCCAAAATGCAAGTCTGAAG 101
    |||||
DB 186 CAGCTTGATATCAGACAGTGAATATGAGAGGCTCCAGAAATGTCACAGCCCTGAAG 245
    |||||
QY 102 GCTCCAGAGCTCGCTTCAACTGACCGTCTCCAGAGCTGGAAGCTCATCATGTGGCTC 161
    |||||
DB 246 GCTCCAGAGCTCGCTTCAACTGACCGTCTCCAGAGCTGGAAGCTCATCATGTGGCTC 305
    |||||
QY 162 TCAGTACATGTGTGTCTAAGCGTCAAGGCCCATGAGGCCCATCATCATGACCGCT 221
    |||||
DB 306 TGAGAGGACAGGTGTGTGTGAGCATGACACTAATGAGCAATCATCATGACGACCGCT 365
    |||||
QY 222 TCACCTCTCAGAGGTACGACCAAGGCGGGAAGT 254
    |||||
DB 366 TCACCTCTCAGAGGTACGACCAAGGCGGGAAGT 398
    |||||
```

```

RESULT 5
US-10-424-599-16675/C
```

```

; Sequence 16675, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
```

```

; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
```

```

; APPLICANT: Cao Yongwei
```

```

; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
```

```

; PRIOR FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
```

```

; SEQ ID NO 16675
```

```

; LENGTH: 775
```

```

; TYPE: DNA
; ORGANISM: Glycine max
```

```

; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_115063C.1
US-10-424-599-16675
```

```

Query Match          4.3%; Score 50.6; DB 17; Length 775;
Best Local Similarity 73.0%; Pred. No. 0.00065;
Matches 65; Conservative 0; Mismatches 24; Indels 0; Gaps 0;
```

```

QY 801 GCTGCTGCTGCTGCGCGCTGCTGTTGTGCTGCAACTGCTGCTGCTGTTTCT 860
    |||||
DB 710 GTTGCTGCTGCTGCTGCTGCTGTTGTGCTGCTGCTGCTGCTGCTGTTTCT 651
    |||||
QY 861 GCTGTAGAAGAAAAGAGATTTCGTAAT 889
    |||||
DB 650 GCTGCTGCTGCTGCTGAGCCCTTTGTAAT 622
    |||||
```

```

RESULT 6
```

```

US-10-357-930-54485
; Sequence 54485, Application US/10357930
; Publication No. US20040259086A1
; GENERAL INFORMATION:
```

```

; APPLICANT: Schlegel, Robert
; APPLICANT: Endege, Wilson
```

```

; APPLICANT: Monahan, John
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
```

```

; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF
; TITLE OF INVENTION: HUMAN PROSTATE CANCER
; FILE REFERENCE: MRI-007BCN
; CURRENT APPLICATION NUMBER: US/10/357,930
; PRIOR FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: 09/785,276
; PRIOR FILING DATE: 2003-02-16
; PRIOR APPLICATION NUMBER: 60/183,319
; PRIOR FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: 60/189,862
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/207,454
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: 60/211,314
; PRIOR FILING DATE: 2000-06-09
; PRIOR APPLICATION NUMBER: 60/219,007
; PRIOR FILING DATE: 2000-07-18
; PRIOR APPLICATION NUMBER: 60/255,281
; PRIOR FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 62232
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54485
; LENGTH: 381
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 28
; OTHER INFORMATION: n = A,T,C or G
US-10-357-930-54485

Query Match
Best Local Similarity 4.1%; Score 47.8; DB 18; Length 381;
Matches 109; Conservative 0; Mismatches 102; Indels 0; Gaps 0;

QY 860 TGTGTGAGAGAAAGAGGATTCGATTCATTTCAAAAGAAATCTGAAAAAGAGAG 919
DB 138 TGTGTAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAG 197
QY 920 ACAAACAAAGAACTGAGACAGAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 979
DB 198 AAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAG 257
QY 980 CAAAGACACAGACGCGCTTCTCCCTCCCAATCTGTAATCCAGTATCTGAA 1039
DB 258 AAAAAAAGACACAGACGCGCTTCTCCCTCCCAATCTGTAATCCAGTATCTGAA 1039
QY 1040 CAAAGAAACAGTGTGCTGCGCTTCTCCCTCCCAATCTGTAATCCAGTATCTGAA 1070
DB 318 CGAAACAAATTTAAACCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCC 348

RESULT 7
US-10-384-107-1/c
; Sequence 1, Application US/10384107
; Publication No. US20050003477A1
; GENERAL INFORMATION:
; APPLICANT: The Trustees of Columbia University
; APPLICANT: Kandel, Eric R.
; APPLICANT: Santoro, Bina
; APPLICANT: Barsch, Susan
; APPLICANT: Siegelbaum, Steven
; APPLICANT: Tibbs, Gareth
; APPLICANT: Grant, Seth
; TITLE OF INVENTION: Pacemaker Channel Proteins and Uses Thereof
; FILE REFERENCE: 0575/54806-B
; CURRENT APPLICATION NUMBER: US/10/384,107
; PRIOR FILING DATE: 2003-03-06
; PRIOR APPLICATION NUMBER: 08/997,685
; NUMBER OF SEQ ID NOS: 60
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 1

```

```

; LENGTH: 2733
; TYPE: DNA
; ORGANISM: mouse
US-10-384-107-1

Query Match
Best Local Similarity 4.1%; Score 47.6; DB 18; Length 2733;
Matches 59; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

QY 801 GCTGTGCTGCTGCGCGCGTGTGTTGCTGCAACTGCTGTGCGGTGTTGTTCT 860
DB 2284 GCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 860
QY 861 GCTGTGAGAAAAAGAG 878
DB 2224 GCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2207

RESULT 8
US-10-620-514-4/c
; Sequence 4, Application US/10620514
; Publication No. US20040068762A1
; GENERAL INFORMATION:
; APPLICANT: Altar, Ricardo M.
; APPLICANT: Bol, David K.
; APPLICANT: Gottardis, Marco
; APPLICANT: Mookhtiar, Kasim
; APPLICANT: Rowley, Ronald B.
; APPLICANT: Ostrowski, Jacek
; TITLE OF INVENTION: TRANSGENIC NON-HUMAN MAMMALS EXPRESSING A REPORTER NUCLEIC ACID
; FILE REFERENCE: D0287 NP
; CURRENT APPLICATION NUMBER: US/10/620,514
; PRIOR FILING DATE: 2003-07-16
; PRIOR APPLICATION NUMBER: US 60/396,501
; PRIOR FILING DATE: 2002-07-17
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 4
; LENGTH: 2706
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-620-514-4

Query Match
Best Local Similarity 3.9%; Score 46; DB 17; Length 2706;
Matches 73; Conservative 0; Mismatches 45; Indels 0; Gaps 0;

QY 755 CTAGCAGGACACAGCTTCTGACCGCGACGTGTAATCTTAACAATACGCTGCTGCTG 814
DB 632 CCAATGCGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 814
QY 815 CGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 872
DB 572 TGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 515

RESULT 9
US-10-008-739A-1/c
; Sequence 1, Application US/10008739A
; Publication No. US20020161194A1
; GENERAL INFORMATION:
; APPLICANT: Pfizer Inc.
; APPLICANT: Caetleberry, Tessa A.
; APPLICANT: Lu, Bihong
; APPLICANT: Owen, Thomas A.
; APPLICANT: Smock, Steven L.
; TITLE OF INVENTION: The Canine Androgen Receptor
; FILE REFERENCE: P010893AGPR
; CURRENT APPLICATION NUMBER: US/10/008,739A
; PRIOR FILING DATE: 2002-04-15
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: Patentin version 3.1

```





RESULT 15  
US-10-085-783A-1932/C  
Sequence 1932, Application US/10085783A  
Publication No. US20040037841A1  
GENERAL INFORMATION:  
APPLICANT: Chondrogenic Inc.  
APPLICANT: Liaw, C.C.  
TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis  
FILE REFERENCE: 4231/2002  
CURRENT APPLICATION NUMBER: US/10/085, 783A  
CURRENT FILING DATE: 2002-02-28  
PRIOR APPLICATION NUMBER: US 60/305,340  
PRIOR FILING DATE: 2001-07-13  
PRIOR APPLICATION NUMBER: US 60/275,017  
PRIOR FILING DATE: 2001-03-12  
PRIOR APPLICATION NUMBER: US 60/271,955  
PRIOR FILING DATE: 2001-02-28  
NUMBER OF SEQ ID NOS: 58994

```

; SEQ ID NO 1932
;
; LENGTH: 616
; TYPE: DNA
;
;

```

US-10-085-783A-1932

Query Match	3.8%	Score 44.8;	DB 17;	Length 616;
Best Local Similarity	81.2%	Pred. No. 0.03;		
Matches 52;	Conservative 0;	Mismatches 12;	Indels 0;	Gaps 0;

801 GCTGCTGCTGCGCCGCGTGTGTGTGAGCTGCAACTGCTGCTGCCGTTGTGTCTTCT 860

```

      QY      861  GCTG  864
            ||||
      Db      426  GCTG  423

Search completed: February 25, 2005, 06:16:02
Job time : 821.509 secs

```



## RESULT 2

```
US-09-949-016-11025
; Sequence 11025, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; FILE REFERENCE: C1001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11025
; LENGTH: 404
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-11025
```

```
Query Match
Best Local Similarity 7.0%; Score 145.5; DB 4; Length 404;
Matches 77; Conservative 34; Mismatches 94; Indels 123; Gaps 15;
```

```
QY 64 EPIITNDRFTS-----QRYDQGNFT--SEMIHNVPSDSGNIR-----CSLQNSRLHGS 112
DB 162 KPLVFNKGVSVKQTRRHPETGLFTLQSELM---VTPARGDBRPFTFSCSFSPGLPRHR 218
QY 113 AYLTVQVWGELEFIP-----SVNLVVAENP-----CEVTCLEPSHTWMLPDIS 154
DB 219 ALRTAPIQPRVMEPVLPEVQLV---EPBGAVAPGCVTLTCEVPAQPS-----POIH 270
QY 155 WELGLVSHSSYVFPVPSDLOSASVIALTPQSGTLTCVATWKSILKARKSATVNLTVI 214
DB 271 WMKD-----GVPLPLPPSPVLILPEIGPDQGTSCVATHSHGQESRAVVISI 321
QY 215 RCPDPTGGGINIPGVLSLPSLGSFSLPTWKGVLGLAGTMLT-----PCTLTIRCC 267
DB 322 E-PGEBG-----PTAGSVGSGGLGTALALGILGIGTAAALLIGVI 361
QY 268 CCRRCGCCGCCRCRCCPCCRKRGRFRIQFKKSEKKT--NKETETESGNGNSGYNSDQ 325
DB 362 LMQRR-----QRRGERKAPENQEEBERAEIN----- 389
QY 326 KTTDTASLPPKSGESSDPQRNNSCGPP 353
DB 390 -----QSEPEPAGESSTGCP 404
```

## RESULT 3

```
US-09-638-648-3
; Sequence 3, Application US/09638648
; Patent No. 6825164
; GENERAL INFORMATION:
; APPLICANT: Stern, David M.
; APPLICANT: Schmidt, Ann Marie
; APPLICANT: Yan, Shi Du
; APPLICANT: Zilokovic, Berislav
; TITLE OF INVENTION: A METHOD TO INCREASE CEREBRAL BLOOD FLOW IN AMYLOID
; FILE REFERENCE: 0575/62097
; CURRENT APPLICATION NUMBER: US/09/638,648
; CURRENT FILING DATE: 2000-08-14
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 3
; LENGTH: 404
```

```
; TYPE: PRT
; ORGANISM: Human
US-09-638-648-3
```

```
Query Match
Best Local Similarity 7.0%; Score 145.5; DB 4; Length 404;
Matches 77; Conservative 34; Mismatches 94; Indels 123; Gaps 15;
```

```
QY 64 EPIITNDRFTS-----QRYDQGNFT--SEMIHNVPSDSGNIR-----CSLQNSRLHGS 112
DB 162 KPLVFNKGVSVKQTRRHPETGLFTLQSELM---VTPARGDBRPFTFSCSFSPGLPRHR 218
QY 113 AYLTVQVWGELEFIP-----SVNLVVAENP-----CEVTCLEPSHTWMLPDIS 154
DB 219 ALRTAPIQPRVMEPVLPEVQLV---EPBGAVAPGCVTLTCEVPAQPS-----POIH 270
QY 155 WELGLVSHSSYVFPVPSDLOSASVIALTPQSGTLTCVATWKSILKARKSATVNLTVI 214
DB 271 WMKD-----GVPLPLPPSPVLILPEIGPDQGTSCVATHSHGQESRAVVISI 321
QY 215 RCPDPTGGGINIPGVLSLPSLGSFSLPTWKGVLGLAGTMLT-----PCTLTIRCC 267
DB 322 E-PGEBG-----PTAGSVGSGGLGTALALGILGIGTAAALLIGVI 361
QY 268 CCRRCGCCGCCRCRCCPCCRKRGRFRIQFKKSEKKT--NKETETESGNGNSGYNSDQ 325
DB 362 LMQRR-----QRRGERKAPENQEEBERAEIN----- 389
QY 326 KTTDTASLPPKSGESSDPQRNNSCGPP 353
DB 390 -----QSEPEPAGESSTGCP 404
```

## RESULT 4

```
US-08-755-235-4
; Sequence 4, Application US/08755235
; Patent No. 6790443
; GENERAL INFORMATION:
; APPLICANT: Stern, David M.
; APPLICANT: Schmidt, Ann Marie
; APPLICANT: Wu, Jun
; TITLE OF INVENTION: METHOD FOR TREATING SYMPTOMS OF DIABETES
; FILE REFERENCE: 0575/50159
; CURRENT APPLICATION NUMBER: US/08/755,235
; CURRENT FILING DATE: 1996-11-22
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 4
; LENGTH: 405
; TYPE: PRT
; ORGANISM: Human
US-08-755-235-4
```

```
Query Match
Best Local Similarity 6.7%; Score 140; DB 4; Length 405;
Matches 78; Conservative 34; Mismatches 93; Indels 124; Gaps 16;
```

```
QY 64 EPIITNDRFTS-----QRYDQGNFT--SEMIHNVPSDSGNIR-----CSLQNSRLHGS 112
DB 162 KPLVFNKGVSVKQTRRHPETGLFTLQSELM---VTPARGDBRPFTFSCSFSPGLPRHR 218
QY 113 AYLTVQVWGELEFIP-----SVNLVVAENP-----CEVTCLEPSHTWMLPDIS 154
DB 219 ALRTAPIQPRVMEPVLPEVQLV---EPBGAVAPGCVTLTCEVPAQPS-----POIH 270
QY 155 WELGLVSHSSYVFPVPSDLOSASVIALTPQSGTLTCVATWKSILKARKSATVNLTVI 213
DB 271 WMKD-----GVPLPLPPSPVLILPEIGPDQGTSCVATHSHGQESRAVVISI 321
QY 214 RCPDPTGGGINIPGVLSLPSLGSFSLPTWKGVLGLAGTMLT-----PCTLTIRCC 266
DB 322 E-PGEBG-----PTAGSVGSGGLGTALALGILGIGTAAALLIGVI 361
```

QY 267 CCCRRCCGNCNCCRCRKRKRFRIOFKKSEKKT--NKETETESGNSGYNBDE 324  
DB 362 ILWQR-----ORGERKAPENQEEBEERAEIN----- 390  
QY 325 OKTDTYASLPKSCSSDEQNNSSGPP 353  
DB 391 -----OSEEPEAGESSTGCP 405

RESULT 5  
US-09-041-886-25  
Sequence 25, Application US/09041886  
Patent No. 6235872  
GENERAL INFORMATION:  
APPLICANT: Bredesen, Dale E.  
APPLICANT: Rabizadeh, Sharrow  
TITLE OF INVENTION: Proapoptotic Peptides, Dependence  
TITLE OF INVENTION: Polypeptides and Methods of Use  
NUMBER OF SEQUENCES: 72  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Campbell & Flores LLP  
STREET: 4370 La Jolla Village Drive, Suite 700  
CITY: San Diego  
STATE: California  
COUNTRY: United States  
ZIP: 92122  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/041,886  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Campbell, Cathryn A.  
REGISTRATION NUMBER: 31,815  
REFERENCE/DOCKET NUMBER: P-LJ 2626  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (619) 535-9001  
TELEFAX: (619) 535-8949  
INFORMATION FOR SEQ ID NO: 25:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1447 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-041-886-25

Query Match 6.5%; Score 136; DB 3; Length 1447;  
Best Local Similarity 25.1%; Pred. No. 0.004;  
Matches 62; Conservative 34; Mismatches 101; Indels 50; Gaps 10;

QY 9 RDPGSGSGNEV-----IEGPNARVILKSGQARFNCTVSGW--KLIMW 50  
DB 215 RNPASSRTGNEAEVRILSDPGLHRLQYFLQRPNSVVAIEGKDAVLECCVS--GYPPPSFTW 273  
QY 51 ALSDMVLSVRMEPIITNDRTFSORYDOGNFTSEMIITHNVEPDSGNIRC--SLQNR 108  
DB 274 LRGEVY-----QIRSKKYSLLGG--SNLLISNTVTDSDSGMYTCVVTYKNN 318  
QY 109 LHGSAVLYVQVNGELFIPSVNLVVAENEPCEVTCLPSHTWLPDISW--ELGLLVSHSY 167  
DB 319 ISASAEIYLVPPWFLNHPNSNLYAYESMDIEFECTVSGKP--VPTVMMKMGDVVIPSDF 377  
QY 166 FVPEPSDLOSASVILALTPQSNGLTLCVATWKSILKAKSATVNLVIRCPDGTGGINIP 227  
DB 378 QIVGSGSNLR-----ILGVKSDGEFYQCAVNAENAGNAQTSALIVKPAIPSSS----- 426

QY 228 GVLSLP 234  
DB 427 -VLPSAP 432

RESULT 6  
PCT-US94-05277-2  
Sequence 2, Application PC/TUS9405277  
GENERAL INFORMATION:  
APPLICANT: Bruckin, Arthur  
APPLICANT: Jaroosz, David E.  
APPLICANT: Johnson, Karen  
APPLICANT: Kinzler, Kenneth W.  
APPLICANT: Vogelstein, Bert  
APPLICANT: Zabrucky, James R.  
TITLE OF INVENTION: Antibodies Specific for DCC Gene Product  
NUMBER OF SEQUENCES: 2  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Banner, Birch, McKie & Beckett  
STREET: 1001 G Street, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20001  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US94/05277  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Kagan, Sarah A.  
REGISTRATION NUMBER: 32,141  
REFERENCE/DOCKET NUMBER: 01107.42709  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202.508.9100  
TELEFAX: 202.508.9299  
TELEX: 197430 BMB UT  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1447 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
PCT-US94-05277-2

Query Match 6.5%; Score 136; DB 5; Length 1447;  
Best Local Similarity 25.1%; Pred. No. 0.004;  
Matches 62; Conservative 34; Mismatches 101; Indels 50; Gaps 10;

QY 9 RDPGSGSGNEV-----IEGPNARVILKSGQARFNCTVSGW--KLIMW 50  
DB 215 RNPASSRTGNEAEVRILSDPGLHRLQYFLQRPNSVVAIEGKDAVLECCVS--GYPPPSFTW 273  
QY 51 ALSDMVLSVRMEPIITNDRTFSORYDOGNFTSEMIITHNVEPDSGNIRC--SLQNR 108  
DB 274 LRGEVY-----QIRSKKYSLLGG--SNLLISNTVTDSDSGMYTCVVTYKNN 318  
QY 109 LHGSAVLYVQVNGELFIPSVNLVVAENEPCEVTCLPSHTWLPDISW--ELGLLVSHSY 167  
DB 319 ISASAEIYLVPPWFLNHPNSNLYAYESMDIEFECTVSGKP--VPTVMMKMGDVVIPSDF 377  
QY 166 FVPEPSDLOSASVILALTPQSNGLTLCVATWKSILKAKSATVNLVIRCPDGTGGINIP 227  
DB 378 QIVGSGSNLR-----ILGVKSDGEFYQCAVNAENAGNAQTSALIVKPAIPSSS----- 426

QY 228 GVLSLP 234  
DB 427 -VLPSAP 432

RESULT 7  
US-08-374-834-16

```

; Sequence 16, Application US/08374834
; Patent No. 5656473
; GENERAL INFORMATION:
; APPLICANT: Valenzuela, et al.
; TITLE OF INVENTION: NOVEL TYROSINE KINASE RECEPTOR
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Regeneron Pharmaceuticals, Inc.
; STREET: 777 Old Saw Mill River Road
; CITY: Tarrytown
; STATE: New York
; COUNTRY: USA
; ZIP: 10591
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/374,834
; FILING DATE: 19-JAN-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/095,658
; FILING DATE: 21-JUL-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Cobert, Robert J.
; REGISTRATION NUMBER: 36,108
; REFERENCE/DOCKET NUMBER: REG 190A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (914) 345-7400
; TELEFAX: (914) 345-7400
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 869 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; US-08-374-834-16

```

```

Query Match      6.3%; Score 132.5; DB 1; Length 869;
Best Local Similarity 20.8%; Pred. No. 0.0041;
Matches 89; Conservative 55; Mismatches 178; Indels 105; Gaps 20;

QY 4 GAMENRDPGSGSGNVEIEGPONARVYKGSQARFNCVTSQGWK-LIMMALSDMVVLSVRP 62
DB 113 GALQVMMKP-----KITRPPIVNVKIIIEGLKAVLPCTTMGNPKPSVSWIKD----- 158
QY 63 MEPIITNDRFTSQRYDQGNFTSEMIINHVEPSDSGNIRCSLONSRLHGSAY-LTVQVMG 121
DB 159 -SPLRENSRIAVLE-----SGSLRIHNQKEDAGYRCVAKNSL--GTAYSKVYKLEV 208
QY 122 ELFIPSVNLVAENEP-----CEVTCLPSHWMTLPDISW-ELGLVSHSSYFVPEP 172
DB 209 EVFARILRAPESHNVTFGSFVTLHCTATGIP-----VPTITWLENQNAVSSGSIQESVXD 263
QY 173 SDLOSANVSIILTPQSNGLTVCAT-----WKSIAKRSATVNLVTICPODPTGGG----- 223
DB 264 RVIDSRLOLFTKP--GLYTICLATNKGKGFSTAKAAATISIAEMSKPKDKNGYCAQY 320
QY 224 ----INIGVLSLPSLGSFL-----PTWGVGLAGLGTMLLPTCTLTIRCC 267
DB 321 RGEVCNAVLAQDALVFLNTSYADPEAQBELLVHTANMEL-----KVSPVCRPAAEAL 373
QY 268 CCRRCRCGCN-----CCCRCC-----FCRRKRGFRIOFKKSEKTKNKETETE 312
DB 374 LCNHIFQRCSPGVPTPIPICTREYCLAVKELFCCKE-----MLWMEKTHHGLYRSEWHL 429
QY 313 SGANSGVNSDEQKTTDTASLPKSCSSSDPEQGNSSCGPPHQRADQRP-----PRASHP 368
DB 430 SVPECSKLPSWMDPFTACARLP-----HIDYNNKENIKTFPP--MTSKPSVDIPIPLSSS 482

```

```

QY 369 QASENIA 375
DB 483 SSSFSVS 489

```

```

RESULT 8
US-08-644-271-29
; Sequence 29, Application US/08644271
; Patent No. 5814478
; GENERAL INFORMATION:
; APPLICANT: Valenzuela, et al.
; TITLE OF INVENTION: NOVEL TYROSINE KINASE RECEPTORS
; NUMBER OF SEQUENCES: 32
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Regeneron Pharmaceuticals, Inc.
; STREET: 777 Old Saw Mill Road
; CITY: Tarrytown
; STATE: NY
; COUNTRY: USA
; ZIP: 10591

```

```

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 2.0

```

```

; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/644,271
; FILING DATE: 10-MAY-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US95 60/008,657
; FILING DATE: 15-DEC-1995

```

```

; ATTORNEY/AGENT INFORMATION:
; NAME: Cobert, Robert J
; REGISTRATION NUMBER: 36,108
; REFERENCE/DOCKET NUMBER: REG 195A

```

```

; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 914-345-7400
; TELEFAX: 914-345-7721

```

```

; INFORMATION FOR SEQ ID NO: 29:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 869 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; US-08-644-271-29

```

```

Query Match      6.3%; Score 132.5; DB 2; Length 869;
Best Local Similarity 20.8%; Pred. No. 0.0041;
Matches 89; Conservative 55; Mismatches 178; Indels 105; Gaps 20;

QY 4 GAMENRDPGSGSGNVEIEGPONARVYKGSQARFNCVTSQGWK-LIMMALSDMVVLSVRP 62
DB 113 GALQVMMKP-----KITRPPIVNVKIIIEGLKAVLPCTTMGNPKPSVSWIKD----- 158
QY 63 MEPIITNDRFTSQRYDQGNFTSEMIINHVEPSDSGNIRCSLONSRLHGSAY-LTVQVMG 121
DB 159 -SPLRENSRIAVLE-----SGSLRIHNQKEDAGYRCVAKNSL--GTAYSKVYKLEV 208
QY 122 ELFIPSVNLVAENEP-----CEVTCLPSHWMTLPDISW-ELGLVSHSSYFVPEP 172
DB 209 EVFARILRAPESHNVTFGSFVTLHCTATGIP-----VPTITWLENQNAVSSGSIQESVXD 263
QY 173 SDLOSANVSIILTPQSNGLTVCAT-----WKSIAKRSATVNLVTICPODPTGGG----- 223
DB 264 RVIDSRLOLFTKP--GLYTICLATNKGKGFSTAKAAATISIAEMSKPKDKNGYCAQY 320
QY 224 ----INIGVLSLPSLGSFL-----PTWGVGLAGLGTMLLPTCTLTIRCC 267
DB 321 RGEVCNAVLAQDALVFLNTSYADPEAQBELLVHTANMEL-----KVSPVCRPAAEAL 373

```

```
QY 268 CCRRCGCCN-----CCRC-----FCRRKRGRIQFOKSEKETNKETE 312
DB 374 LCNHIFOECSPGVPTPIPICREYCLAVELFCAXE-----WVMEKTRGLYRSEMHL 429
QY 313 SGENSGVNSDQKTTDTASLPKSCSSDPEORNSCGPPHQADQRP-----PRASHP 368
DB 430 SVPECSKLPMSHMDPTACARLP-----HLDYNNKENTKTPP--MTSSKPSVDIPNLPSS 482
QY 369 QASFNLA 375
DB 483 SSSFSVS 489

RESULT 9
US-09-077-955-33
; Sequence 33, Application US/09077955A
; Patent No. 6413740
; GENERAL INFORMATION:
; APPLICANT: Valenzuela et al., David M.
; TITLE OF INVENTION: NOVEL TYROSINE KINASE RECEPTORS AND LIGANDS
; FILE REFERENCE: REG195-B-PCT-US
; CURRENT APPLICATION NUMBER: US/09/077,955A
; EARLIER FILING DATE: 1998-09-10
; EARLIER APPLICATION NUMBER: PCT/US96/20696
; EARLIER FILING DATE: 1996-12-13
; EARLIER APPLICATION NUMBER: 08/644,271
; EARLIER FILING DATE: 1996-05-10
; EARLIER APPLICATION NUMBER: 60/008,657
; EARLIER FILING DATE: 1995-12-15
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 33
; LENGTH: 869
; TYPE: PR
; ORGANISM: Homo sapiens
US-09-077-955-33

Query Match
Best Local Similarity 20.8%; Score 132.5; DB 4; Length 869;
Matches 89; Conservative 55; Mismatches 178; Indels 105; Gaps 20;

QY 4 GAMENRDPGSSGNGNVEIGPONARVLKGSQARFNCTVSGMK-LIMALSDMVVLSTVRP 62
DB 113 GALQVAKRP-----KITRPPINVKIIEGLKAVLPCTTGNRPSPVSWTKG----- 158
QY 63 MEPIITNDRFTSQRYDQGNFTSEMIHNVBPDSGNIRCSLONSRLHGSAY-LTVQWNG 121
DB 159 -SPLKENSRIAYLE-----SGSLRIHVQKEDAGQYRCVAKNSL--GTAYSKVYKLEF 208
QY 122 ELFIPISVNLVAVNEB-----CEVTCLPSHMTWLPDISW-ELGLVSHSSYFVPEP 172
DB 209 EVFARILRAPESHNTVFGSFVTLHCTATGIP-----VPTITWIENGNAVSSGSIQESVD 263
QY 173 SDOQAVSLALTPQSNGLTCAVAT-----WKSIAKAKSATVNLTVIRCPDQDGG----- 223
DB 264 RVIDSRLOLFTKRP--GLYTICIAINKGKSTAKAAATISIAESKPKQKONKGCAOY 320
QY 224 ----INIPGVLSSLPSLGFSL-----PTMGKVLGLAGTMLTPTCTLTIRCC 267
DB 321 REBVCNAVLAKALAVPLNTSYADPEAOGLLVHTAMNEL-----KVVSPICRPAALML 373
QY 268 CCRRCGCCN-----CCRC-----FCRRKRGRIQFOKSEKETNKETE 312
DB 374 LCNHIFOECSPGVPTPIPICREYCLAVELFCAXE-----WVMEKTRGLYRSEMHL 429
QY 313 SGENSGVNSDQKTTDTASLPKSCSSDPEORNSCGPPHQADQRP-----PRASHP 368
DB 430 SVPECSKLPMSHMDPTACARLP-----HLDYNNKENTKTPP--MTSSKPSVDIPNLPSS 482
QY 369 QASFNLA 375
DB 483 SSSFSVS 489
```

```
RESULT 10
US-09-715-249-8
; Sequence 8, Application US/09715249
; Patent No. 6790614
; GENERAL INFORMATION:
; APPLICANT: NOVARTIS AG
; APPLICANT: VERES, GABOR
; APPLICANT: PIPPIG, SUSANNE
; TITLE OF INVENTION: selectable cell surface marker genes
; FILE REFERENCE: 4-31192
; CURRENT APPLICATION NUMBER: US/09/715,249
; EARLIER FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: us 60/166594
; PRIOR FILING DATE: 1999-11-19
; PRIOR APPLICATION NUMBER: us 09/539248
; PRIOR FILING DATE: 2000-03-30
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 8
; LENGTH: 869
; TYPE: PR
; ORGANISM: MUSK
US-09-715-249-8

Query Match
Best Local Similarity 24.3%; Score 131.5; DB 4; Length 869;
Matches 57; Conservative 36; Mismatches 95; Indels 47; Gaps 11;

QY 4 GAMENRDPGSSGNGNVEIGPONARVLKGSQARFNCTVSGMK-LIMALSDMVVLSTVRP 62
DB 113 GALQVAKRP-----KITRPPINVKIIEGLKAVLPCTTGNRPSPVSWTKG----- 158
QY 63 MEPIITNDRFTSQRYDQGNFTSEMIHNVBPDSGNIRCSLONSRLHGSAY-LTVQWNG 121
DB 159 -SPLKENSRIAYLE-----SGSLRIHVQKEDAGQYRCVAKNSL--GTAYSKVYKLEF 208
QY 122 ELFIPISVNLVAVNEB-----CEVTCLPSHMTWLPDISW-ELGLVSHSSYFVPEP 172
DB 209 EVFARILRAPESHNTVFGSFVTLHCTATGIP-----VPTITWIENGNAVSSGSIQESVD 263
QY 173 SDOQAVSLALTPQSNGLTCAVAT-----WKSIAKAKSATVNLTVIRCPDQDGG----- 223
DB 264 RVIDSRLOLFTKRP--GLYTICIAINKGKSTAKAAATISIAESKPKQKONKG 315

RESULT 11
US-08-977-767-3
; Sequence 3, Application US/08977767
; Patent No. 5972684
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Yue, Henry
; APPLICANT: Greenwald, Sara
; APPLICANT: Corley, Neil C.
; TITLE OF INVENTION: CARBONIC ANHYDRASE VIII
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/977,767
; FILING DATE: Herewith
```

```

CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0423 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-855-0555
TELEFAX: 650-845-4166
TELEX:
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1345 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: GenBank
CLONE: 1532042
US-08-977-767-3

```

```

Query Match
Best Local Similarity 6.2%; Score 128.5; DB 2; Length 1345;
Matches 37; Conservative 1; Mismatches 41; Indels 33; Gaps 5;

QY 190 GTTTCVATWMSLKRSATVNLVIRCPDPTGGI-----NIRGVSLSPISLPSLEPTWCK 245
Db 414 GTTCTCT-----GC-CGTGGAGAGCTGAGAGCCCGGTGAGTGTGA 455
QY 246 VGIAGLWMLLT-PTCTLTIRCCCRRCGCCGCCRC-----CFCC 286
Db 456 CGTGAAGAGGCTCTATGACCCCTTCTGCCCCCTCTGAGACTGACGACC 507

```

```

RESULT 12
US-09-917-254-92
Sequence 92, Application US/09917254
Patent No. 6703204
GENERAL INFORMATION:
APPLICANT: Mutter, George
APPLICANT: Bahk, Jan
FILE REFERENCE: B0801/724(JRY)
CURRENT APPLICATION NUMBER: US/09/917,254
CURRENT FILING DATE: 2001-07-27
PRIOR APPLICATION NUMBER: US 60/222,093
PRIOR FILING DATE: 2000-07-28
NUMBER OF SEQ ID NOS: 102
SOFTWARE: Patentin version 3.0
SEQ ID NO 92
LENGTH: 1953
TYPE: PRT
ORGANISM: Homo Sapiens
US-09-917-254-92

```

```

Query Match
Best Local Similarity 6.0%; Score 126; DB 4; Length 1953;
Matches 86; Conservative 58; Mismatches 149; Indels 130; Gaps 19;

QY 24 PQNARVLGSGQARFNCTVSGM--KLIMWALSDWVLSVPRMPTIINDFTSGRIYDGG 81
Db 78 PRNLCIKGATAKFGRV-RGYRPPQYVH-----RNGQPTSGRFL--LDGGI 124
QY 82 NPTSEMIHANVPSDSGNIRCSLQNSRLHGSAYLTVGV-----MGEL 123
Db 125 RGTSLVIVHAHVEDRGRKYTEATNG--SGARQYVETLVEGSPAKQLGQPVVSKLIGDR 182
QY 124 FI-----PSV-----NLVAENE-----PCEVTCIPSHMTWLPDISWELG- 158
Db 183 FMSASVETRISIMCECPKATKLGKRVVVEGQWGRPSCKITGRPQ-----PQVWMLKGN 237

```

```

QY 159 LTVSHSYTFVPEPSDLOSASVILALTPQSGTLTCVATWMSLKARSA-----TVN 210
Db 238 VPIQPSARVSEKNGW-VLEIHGVNDVDGVVTCVLVNSGSAWSAEILSQLDSAN 296
QY 211 LTVIRCPDPTGGI-----NIRGVSLSPISLPSLEPTWCK 245
Db 297 RSFVRETAIUNSDVAKETVNI SKESKLDL----- 327
QY 266 CCCCRRCGCCGCCRCRRCGRRIQFOKSEKTKETETESGNE-----SGYNS 322
Db 328 -----EAAKSNKCSPPORGSPPWANSQPP-RESKLSCKMSPTATQTP 375
QY 323 DEQKTTDPAI.PPKSCSSDPEORNSCGPEHQAADQ-----PPRASHQASNTLASPE 378
Db 376 VLQKTSSTITQIARVQ---PEPRAPGLGVLSGSEERKAPPRPATFTTROPGLSD 432
QY 379 KVS 381
Db 433 VVS 435

```

```

RESULT 13
US-09-651-200-2
Sequence 2, Application US/09651200
Patent No. 6429303
GENERAL INFORMATION:
APPLICANT: Green et al
FILE OF INVENTION: Polynucleotides Encoding Members of the Human B
FILE OF INVENTION: Lymphocyte Activation Antigen B-7 Family and
FILE REFERENCE: 15966-562 (CURA-62)
CURRENT APPLICATION NUMBER: US/09/651,200
CURRENT FILING DATE: 2000-08-30
PRIOR APPLICATION NUMBER: 60/152383
PRIOR FILING DATE: 1999-09-03
PRIOR APPLICATION NUMBER: 60/172909
PRIOR FILING DATE: 1999-12-21
PRIOR APPLICATION NUMBER: 60/183578
PRIOR FILING DATE: 2000-02-18
NUMBER OF SEQ ID NOS: 25
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 2
LENGTH: 340
TYPE: PRT
ORGANISM: Homo sapiens
US-09-651-200-2

```

```

Query Match
Best Local Similarity 5.9%; Score 123.5; DB 4; Length 340;
Matches 78; Conservative 50; Mismatches 130; Indels 109; Gaps 17;

QY 11 PPGSGGNEVIGPQNAVY-LKSGQARFNCTVS--QWKL-----IMWALSDWVLSVPRM 63
Db 45 PQSPGAVEVQVPPDPVALVGTDLHCSFSPGFSLQNLIMWLTDTKQV----- 100
QY 64 EPIITNDRFTSGRYDGGNF-----TSEMIHANVPSDSGNIRCSLQNSRL 109
Db 101 -----HSTTBGR-DQSGAIYAKRTALPPDLAOGNASIRLQRYVADEGSPFTCEV-SIRD 152
QY 110 HGSAYLTVQVNGELFIPSNLV-----VAENPCEVTCIPSHMTWLP--DISMELG--L 160
Db 153 FGSAAVSLQVAPARYKPSMTLEPNKDLRPGDTVITC--SSRYGYPAAEVWQDQGVPL 210
QY 161 VSHSYVFPPEPSDLOSASVILALTPQSGTLTCVATWMSLKARSAVNLTVIRCP-- 217
Db 211 TGNVTTQMANEDGGLFDVHSLRVLLGANGTYS-----LVRNPLYQ 252
QY 218 QDTGGGINIPVLSLSLPSLPTWGVGLAGLWMLTPTCTLTIRCCCRRCGCCGN 277
Db 253 QDAGSVTITQPMTPPEAL-----WTVGLSVCLIALLV----- 288
QY 278 CCCRCPCRRKRGRIQFOKSEKTKETETESGNEGNSGVNSDEQKTTDPAI.PPKS 337

```



```

Db      289-----ALAFVCMRK-----IKOSCEEENAGADQOG-----EGESKVALQPLKH 338
Cy      338 CESSDPE 344
      : : :
Db      329 SDSKEDD 335

RESULT 14
US-09-651-200-4
; Sequence 4, Application US/09651200
; Patent No. 6429303
; GENERAL INFORMATION:
; APPLICANT: Green et al
; TITLE OF INVENTION: Polynucleotides Encoding Members of the Human B
; TITLE OF INVENTION: Lymphocyte Activation Antigen B-7 Family and
; FILE REFERENCE: 15966-562 (CURA-62)
; CURRENT FILING DATE: 2000-08-30
; PRIOR APPLICATION NUMBER: US/09/651,200
; PRIOR FILING DATE: 1999-09-03/152383
; PRIOR APPLICATION NUMBER: 60/172909
; PRIOR FILING DATE: 1999-12-21
; PRIOR APPLICATION NUMBER: 60/183578
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 441
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-651-200-4

```

RESULT 15  
 US-09-651-200-6  
 ; Sequence 6, Application US/09651200  
 ; Patent No. 6429303  
 ; GENERAL INFORMATION:  
 ; TITLE OF INVENTION: Polynucleotides Encoding Members of the Human B

```

: TITLE OF INVENTION: Lymphocyte Activation Antigen B-7 Family and
: TITLE OF INVENTION: Polypeptides Encoded Thereby
: FILE REFERENCE: 15966-652 (CUBA-62)
: CURRENT APPLICATION NUMBER: US/09/651,200
: CURRENT FILING DATE: 2000-08-30
: PRIOR APPLICATION NUMBER: 60/152383
: PRIOR FILING DATE: 1999-09-03
: PRIOR APPLICATION NUMBER: 60/172909
: PRIOR FILING DATE: 1999-12-21
: PRIOR APPLICATION NUMBER: 60/183578
: PRIOR FILING DATE: 2000-02-18
: NUMBER OF SEQ ID NOS: 25
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 6
: LENGTH: 534
: TYPE: PRT
: ORGANISM: Homo sapiens
: US-09-651-200-6

```

Query Match	5.9%	Score 122.5	DB 4	Length 534
Best Local Similarity	21.3%	Pred. No. 0.017		
Matches 78; Conservative	49;	Mismatches 131;	Indels 109;	Gaps 17

```

QY      1  PSSGGNGNVINGPONARY-LKSGQARNCIVS--QGKTL-----IMAAISDMVLSVRPM 63
Dp      239  PQMSPPGAVEVQVEDPVVALVGTDTATLRCSFSPGPGSLAQMLNIQMLDTDKQLV---- 234
QY      64  EPIITNDRFRTSORYDOGNF-----TSEM1IHNVEPDSGNIKRSLONSRL 109
Dp      295  -----HSPTBGR-DQGSAYANRTPALPDLLAQGNASLRJQRYAVVADEGSFTCFV-SIRD 346
QY      110  HGSAYLTVOYMEELTIPSVNLV---VAENPECVTCLPSHWMLP--DISWELGL---L 160
Dp      347  FGSAAVSLQVAPAYSKPSPMTLEPNKDLRPGVTITTC--SSYRGYPAEVFMODGQGVPL 404
QY      161  VHSISSYFVPEPBSDLSQASVILALPDSNGTLTCVATMTKSLKAKSATVNLTVIRCP--- 217
Dp      405  TGNVTTISQMANQGCLFDVHSLVRVLGANGTYSC-----LVNRNVLQ 446
QY      218  QDTGGGINIPGVLSLPSLGFSLPTMGKVGSLGAGTMLTPCTLTIRCCCCRRRCGCN 277
Dp      447  QDAHGSVTLTGGPMTFFPEAL---WYTVGSLVCIALLV----- 482
QY      278  CCRCCCFCCRRRGRFRIQFOKKSEKTKYKTEFESGENSGNSGNSDQKTTDTASLPPKS 337
Dp      483  ---ALAFVCMRK-----IKQSCSEENAGAEODG-----EGBSKTAQLOPLKH 522
QY      338  CESSDPE 344
Dp      523  SDSKEDD 529

```

Search completed: February 22, 2005, 19:36:01  
Job time : 20.0659 secs

**This Page Blank (uspto)**

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM proteinf - protein search, using sw model

Run on: February 22, 2005, 19:26:31 ; Search time 73.253 Seconds  
(without alignments)  
1724.366 Million cell updates/sec

Title: US-09-729-264-4

Perfect score: 2088  
Sequence: 1 MTAGMKNRDPGSGSGNRY.....HPQASPNLASPEKVSNTTV 386

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1380268 seqs, 327241040 residues

Total number of hits satisfying chosen parameters: 1380268

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database : Published Applications AA\*

1: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep.\*  
2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*  
3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*  
4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep.\*  
5: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pep.\*  
6: /cgn2\_6/ptodata/2/pubpaa/PCTUS\_PUBCOMB.pep.\*  
7: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pep.\*  
8: /cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pep.\*  
9: /cgn2\_6/ptodata/2/pubpaa/US09\_PUBCOMB.pep.\*  
10: /cgn2\_6/ptodata/2/pubpaa/US09\_PUBCOMB.pep.\*  
11: /cgn2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pep.\*  
12: /cgn2\_6/ptodata/2/pubpaa/US09\_NEW\_PUB.pep.\*  
13: /cgn2\_6/ptodata/2/pubpaa/US10\_PUBCOMB.pep.\*  
14: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep.\*  
15: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep.\*  
16: /cgn2\_6/ptodata/2/pubpaa/US10\_PUBCOMB.pep.\*  
17: /cgn2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB.pep.\*  
18: /cgn2\_6/ptodata/2/pubpaa/US11\_NEW\_PUB.pep.\*  
19: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*  
20: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2000	95.8	407	15	US-10-104-047-3074
2	145.5	7.0	390	15	US-10-309-290-98
3	145.5	7.0	390	15	US-10-309-290-100
4	145.5	7.0	404	15	US-10-309-290-96
5	140	6.7	405	8	US-08-755-235-4
6	138.5	6.6	2473	14	US-10-184-644-559
7	138.5	6.6	2473	14	US-10-184-644-559
8	138	6.6	1477	14	US-10-274-583-20
9	138	6.6	1479	15	US-10-231-956A-325
10	138	6.6	1496	14	US-10-021-660-125
11	138	6.6	1496	15	US-10-331-496A-28
12	138	6.6	1496	15	US-10-211-462-87
13	138	6.6	1498	15	US-10-243-552-899

14	138	6.6	1498	15	US-10-276-774-1957	Sequence 1957, App
15	136	6.5	750	15	US-10-116-275-240	Sequence 240, App
16	132.5	6.3	869	13	US-10-016-283-33	Sequence 33, App1
17	132	6.3	633	14	US-10-180-410-26	Sequence 26, App1
18	131.5	6.3	869	9	US-09-817-487A-2	Sequence 2, App1
19	129	6.2	4675	15	US-10-093-463-74	Sequence 74, App1
20	129	6.2	4691	15	US-10-093-463-72	Sequence 72, App1
21	128.5	6.2	305	15	US-10-094-749-3018	Sequence 3018, App
22	128	6.1	592	14	US-10-180-410-2	Sequence 2, App1
23	128	6.1	592	15	US-10-312-528-2	Sequence 12, App1
24	128	6.1	594	14	US-10-180-410-12	Sequence 12, App1
25	128	6.1	594	15	US-10-312-528-12	Sequence 12, App1
26	128	6.1	594	13	US-10-052-586-584	Sequence 584, App
27	128	6.1	708	14	US-10-176-550-584	Sequence 584, App
28	128	6.1	708	14	US-10-176-758-584	Sequence 584, App
29	128	6.1	708	14	US-10-175-737-584	Sequence 584, App
30	128	6.1	708	14	US-10-174-581-584	Sequence 584, App
31	128	6.1	708	14	US-10-176-483-584	Sequence 584, App
32	128	6.1	708	14	US-10-176-749-584	Sequence 584, App
33	128	6.1	708	14	US-10-176-914-584	Sequence 584, App
34	128	6.1	708	14	US-10-176-915-584	Sequence 584, App
35	128	6.1	708	14	US-10-175-706-584	Sequence 584, App
36	128	6.1	708	14	US-10-175-738-584	Sequence 584, App
37	128	6.1	708	14	US-10-175-732-584	Sequence 584, App
38	128	6.1	708	14	US-10-176-482-584	Sequence 584, App
39	128	6.1	708	14	US-10-176-757-584	Sequence 584, App
40	128	6.1	708	14	US-10-176-913-584	Sequence 584, App
41	128	6.1	708	14	US-10-180-552-584	Sequence 584, App
42	128	6.1	708	14	US-10-180-557-584	Sequence 584, App
43	128	6.1	708	14	US-10-177-700-584	Sequence 584, App
44	128	6.1	708	14	US-10-174-572-584	Sequence 584, App
45	128	6.1	708	14	US-10-174-579-584	Sequence 584, App

## ALIGNMENTS

RESULT 1  
US-10-104-047-3074  
; Sequence 3074, Application US/10104047  
; Publication No. US20030236392A1  
; GENERAL INFORMATION:  
; APPLICANT: HELIX RESEARCH INSTITUTE  
; TITLE OF INVENTION: NO. US20030236392A1el full length cDNA  
; FILE REFERENCE: H1-A0105  
; CURRENT APPLICATION NUMBER: US/10/104,047  
; CURRENT FILING DATE: 2002-03-25  
; PRIOR APPLICATION NUMBER:  
; NUMBER OF SEQ ID NOS: 4096  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 3074  
; LENGTH: 407  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-104-047-3074

Query Match	95.8%	Score 2000;	DB 15;	Length 407;
Best Local Similarity	99.2%	Pred. No. 36-158;		
Matches 371;	Conservative	1;	Mismatches 2;	Indels 0; Gaps 0;
QY	13	GGSGNEVELEGQNAARVLKGSQARRCTYSGQWKIMALSDMVLVSAPMEPIITNDRF	72	
DB	34	GGSGNEVELEGQNAARVLKGSQARRCTYSGQWKIMALSDMVLVSAPMEPIITNDRF	93	
QY	72	TSQRDOGNFTSEMIHNVPSDSGNTRCSQNSRLHGSAYLTVQVMGELFIPSVNLVAV	132	
DB	94	TSQRDOGNFTSEMIHNVPSDSGNTRCSQNSRLHGSAYLTVQVMGELFIPSVNLVAV	153	
QY	133	AENPECVTCPLPSHTWLPDISWELGLVSHSSYFVPEPSDLSQSAVSLALTPQNGTL	192	
DB	154	AENPECVTCPLPSHTWLPDISWELGLVSHSSYFVPEPSDLSQSAVSLALTPQNGTL	213	

APPLICATION NUMBER: 60/380,981  
 PRIOR FILING DATE: 2002-05-15

TITLE OF INVENTION: THERAPEUTIC POLYP

FILE REFERENCE: 21402-502A  
CURRENT APPLICATION NUMBER: US/10/309,290

CURRENT FILING DATE: 2002-12-02  
PRIOR APPLICATION NUMBER: 60/336,600  
PRIOR FILING DATE: 2001-12-05  
PRIOR APPLICATION NUMBER: 60/338,285  
PRIOR FILING DATE: 2001-12-07  
PRIOR APPLICATION NUMBER: 60/341,346  
PRIOR FILING DATE: 2001-12-12  
PRIOR APPLICATION NUMBER: 60/341,477  
PRIOR FILING DATE: 2001-12-17  
PRIOR APPLICATION NUMBER: 60/341,540  
PRIOR FILING DATE: 2001-12-17  
PRIOR APPLICATION NUMBER: 60/342,592  
PRIOR FILING DATE: 2001-12-20  
PRIOR APPLICATION NUMBER: 60/344,297  
PRIOR FILING DATE: 2001-12-27  
PRIOR APPLICATION NUMBER: 60/344,903  
PRIOR FILING DATE: 2001-12-31  
PRIOR APPLICATION NUMBER: 60/373,288  
PRIOR FILING DATE: 2002-04-17  
PRIOR APPLICATION NUMBER: 60/380,981  
PRIOR FILING DATE: 2002-05-15  
Remaining Prior Application data removed - See file Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 274  
SOFTWARE: CuraseqList version 0.1  
SEQ ID NO 100  
LENGTH: 390  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-309-290-100

Query Match 7.0%; Score 145.5; DB 15; Length 390;  
Best Local Similarity 23.5%; Pred. No. 0.0014; Indels 123; Gaps 15;  
Matches 77; Conservative 34; Mismatches 94;

64 EPIITNDRTS-----QRYDOGNFT--SEMIHNVPEPSDGNIR-----CSLQNSRLHGS 112  
148 KPLVPEKGVSVKEQRRHPETGLFTLOSLM---VTPARGDPRPTFSCSPGLPRHR 204  
QY 113 AYLTVQVMEGLFIP-----SVNLVVAENP-----CEVTCLPSTHTWLPDIS 154  
DB 205 ALRTAPIQPRVMEPVLEEVQLV---EPGGAVARCGVTTLCEVPAOPS-----POLH 256  
QY 155 WEIGLLVSHSSYFVPEPSDLOSAVSIALTPQNSGTLTCVATWMSLKARSAVNLTVI 214  
DB 257 WKMD-----GVPLPLPSPVLLPEIGPDQGTYSVATHSHGPOESRAVISI 307  
QY 215 RCPDPTGGGINIPVLSLPSLGFSLPTWGXVGLAGTMLT-----PTCTLTIRCC 267  
DB 308 E-PGEG-----PTAGSVGSGGLTALALGILGLGTAALLIGVI 347  
QY 268 CCRRCGCCGCCRCFCRRKRGFRIOFKSEKEXT--NKETETBSGNENSGYNSDEQ 325  
DB 348 LMKRR-----QRRGEERKAPENQEEERAEALN----- 375  
QY 326 KTTDTASLPKSCSSDPEQRNSSCGPP 353  
DB 376 -----QSEEPKAGSSSTGEP 390

RESULT 4  
US-10-309-290-96  
Sequence 96, Application US/10309290  
Publication No. US20040023241A1  
GENERAL INFORMATION:  
APPLICANT: Alsobrook II, John P.  
APPLICANT: Anderson, David W.  
APPLICANT: Boldog, Ferenc L.  
APPLICANT: Burgess, Catherine E.  
APPLICANT: Chilikun, Rajeev A.  
APPLICANT: Edinger, Shlomit R.  
APPLICANT: Gerlach, Valerie L.  
APPLICANT: Gorman, Linda  
APPLICANT: Gould-Rothberg, Bonnie E.

APPLICANT: Guo, Xiaojia  
APPLICANT: Jeffers, Michael E.  
APPLICANT: Ji, Weizhen  
APPLICANT: Li, Li  
APPLICANT: Malyankar, Uriel M.  
APPLICANT: Miller, Charles E.  
APPLICANT: Murphy, Ryan  
APPLICANT: Paturajan, Meera  
APPLICANT: Peyman, John A.  
APPLICANT: Rastelli, Luca  
APPLICANT: Rieger, Daniel K.  
APPLICANT: Shenoy, Suresh G.  
APPLICANT: Smithson, Glenda  
APPLICANT: Starling, Gary  
APPLICANT: Taupier, Raymond J.  
APPLICANT: Voss, Edward Z.  
APPLICANT: Zhong, Haihong  
TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHODS  
FILE REFERENCE: 21402-502A  
CURRENT APPLICATION NUMBER: US/10309,290  
CURRENT FILING DATE: 2002-12-02  
PRIOR APPLICATION NUMBER: 60/336,600  
PRIOR FILING DATE: 2001-12-05  
PRIOR APPLICATION NUMBER: 60/338,285  
PRIOR FILING DATE: 2001-12-07  
PRIOR APPLICATION NUMBER: 60/341,346  
PRIOR FILING DATE: 2001-12-12  
PRIOR APPLICATION NUMBER: 60/341,477  
PRIOR FILING DATE: 2001-12-17  
PRIOR APPLICATION NUMBER: 60/341,540  
PRIOR FILING DATE: 2001-12-17  
PRIOR APPLICATION NUMBER: 60/342,592  
PRIOR FILING DATE: 2001-12-20  
PRIOR APPLICATION NUMBER: 60/344,297  
PRIOR FILING DATE: 2001-12-27  
PRIOR APPLICATION NUMBER: 60/344,903  
PRIOR FILING DATE: 2002-04-17  
PRIOR APPLICATION NUMBER: 60/380,981  
PRIOR FILING DATE: 2002-05-15  
Remaining Prior Application data removed - See file Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 274  
SOFTWARE: CuraseqList version 0.1  
SEQ ID NO 96  
LENGTH: 404  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-309-290-96

Query Match 7.0%; Score 145.5; DB 15; Length 404;  
Best Local Similarity 23.5%; Pred. No. 0.0015;  
Matches 77; Conservative 34; Mismatches 94; Indels 123; Gaps 15;

64 EPIITNDRTS-----QRYDOGNFT--SEMIHNVPEPSDGNIR-----CSLQNSRLHGS 112  
162 KPLVPEKGVSVKEQRRHPETGLFTLOSLM---VTPARGDPRPTFSCSPGLPRHR 218  
QY 113 AYLTVQVMEGLFIP-----SVNLVVAENP-----CEVTCLPSTHTWLPDIS 154  
DB 219 ALRTAPIQPRVMEPVLEEVQLV---EPGGAVARCGVTTLCEVPAOPS-----POLH 270  
QY 155 WEIGLLVSHSSYFVPEPSDLOSAVSIALTPQNSGTLTCVATWMSLKARSAVNLTVI 214  
DB 271 WKMD-----GVPLPLPSPVLLPEIGPDQGTYSVATHSHGPOESRAVISI 321  
QY 215 RCPDPTGGGINIPVLSLPSLGFSLPTWGXVGLAGTMLT-----PTCTLTIRCC 267  
DB 322 E-PGEG-----PTAGSVGSGGLTALALGILGLGTAALLIGVI 361  
QY 268 CCRRCGCCGCCRCFCRRKRGFRIOFKSEKEXT--NKETETBSGNENSGYNSDEQ 325

Db 362 LMQR-----ORRGERKAPENQEEERAEIN----- 389  
 QY 326 KTTDTASLPKSCSSDEQNNSSCGPP 353  
 Db 390 -----QSEEPAGESSSTGCP 404

## RESULT 5

US-08-755-235-4  
 ; Sequence 4, Application US/08755235  
 ; Publication No. US20030059423A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Stern, David M.  
 ; APPLICANT: Schmidt, Ann Marie  
 ; APPLICANT: Wu, Jun  
 ; TITLE OF INVENTION: METHOD FOR TREATING SYMPTOMS OF DIABETES  
 ; FILE REFERENCE: 0575/50159  
 ; CURRENT APPLICATION NUMBER: US/08/755,235  
 ; CURRENT FILING DATE: 1996-11-22  
 ; NUMBER OF SEQ ID NOS: 4  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 4  
 ; LENGTH: 405  
 ; TYPE: PRT  
 ; ORGANISM: Human  
 US-08-755-235-4

Query Match  
 Best Local Similarity 23.7%; Score 140; DB 8; Length 405;  
 Matches 78; Conservative 34; Mismatches 93; Indels 124; Gaps 16;

QY 64 EPIITNDRTS-----QRYDOGNFT--SEMIHNVPEPDSGNIR-----CSLQNSRLHSS 112  
 Db 162 KPLVPEKGVSVAEQRRHREITGLFLQSELM---VTPARGDPRTFSQSPGIPRRH 218  
 QY 113 AYLTVQVMGLFIP---SYNLVVAENEP-----CEVTLCPSHMTWLPDIS 154  
 Db 219 ALRTAFIQPRVMPVPLAEYQLVV---EPEGAVAPGGTVTLTCEVPAPQS-----PQIH 270  
 QY 155 WEGLLVSHSYFYVEPESDLOSAVSIALTPOSNGLTCAVTWKSILKARKS-AIVNLTV 213  
 Db 271 WMKD-----GVLPPLPSPVLLPRTIGPDQGTYSQVATHSHGQESRAVVISI 321  
 QY 214 IRCPQDTGGGINIPGVLSLPSLGSFLPTWGVGLAGTMTLT-----PTCTLTIRC 266  
 Db 322 IB-PGSEG-----PTAGSVGSGGTLTALALGILGLTALLIGV 361  
 QY 267 CCCRRCCGNCNCCRCFCCKRKRGRIOFOKSEKERT--NKETETESGNENSGYNSDE 324  
 Db 362 ILMQR-----ORRGERKAPENQEEERAEIN----- 390  
 QY 325 QKTTDTASLPKSCSSDEQNNSSCGPP 353  
 Db 391 -----QSEEPAGESSSTGCP 405

## RESULT 6

US-10-184-644-559  
 ; Sequence 559, Application US/10184644  
 ; Publication No. US2003004930A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Chen, Jian  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Smith, Victoria  
 ; APPLICANT: Watanabe, Colin K.  
 ; APPLICANT: Wood, William I.  
 ; APPLICANT: Zhang, Zemin  
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

; TITLE OF INVENTION: ACIDS ENCODING THE SAME  
 ; FILE REFERENCE: P3430RIC227  
 ; CURRENT APPLICATION NUMBER: US/10/184,644  
 ; CURRENT FILING DATE: 2002-06-28  
 ; Prior Application removed - See File Wrapper or Palm  
 ; NUMBER OF SEQ ID NOS: 612  
 ; SEQ ID NO 559  
 ; LENGTH: 2473  
 ; TYPE: DNA  
 ; ORGANISM: Homo Sapien  
 US-10-184-644-559

Query Match  
 Best Local Similarity 29.5%; Score 138.5; DB 14; Length 2473;  
 Matches 31; Conservative 3; Mismatches 36; Indels 35; Gaps 2;

QY 183 ALTPQSGNLTTCVATWKSILKARKSATVNLIVIRCPDPTGGGINIPGVLSLPSLGSFLPT 242  
 Db 2274 AATTGAAGTTCAATTAAATTATATATATGTTCC----- 2307  
 QY 243 WGVVGLAGTMTLTPTCTLTIRCCCR-RRCCGNCNCCRCFCPC 286  
 Db 2308 -----ATTCCATGCGCCACCCACCCCGCGCCCGCCACACACC 2344

## RESULT 7

US-10-184-634-559  
 ; Sequence 559, Application US/10184634  
 ; Publication No. US2003006868A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Chen, Jian  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Smith, Victoria  
 ; APPLICANT: Watanabe, Colin K.  
 ; APPLICANT: Wood, William I.  
 ; APPLICANT: Zhang, Zemin  
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

; TITLE OF INVENTION: ACIDS ENCODING THE SAME  
 ; FILE REFERENCE: P3430RIC217  
 ; CURRENT APPLICATION NUMBER: US/10/184,634  
 ; CURRENT FILING DATE: 2002-06-28  
 ; Prior Application removed - See File Wrapper or Palm  
 ; NUMBER OF SEQ ID NOS: 612  
 ; SEQ ID NO 559  
 ; LENGTH: 2473  
 ; TYPE: DNA  
 ; ORGANISM: Homo Sapien  
 US-10-184-634-559

Query Match  
 Best Local Similarity 29.5%; Score 138.5; DB 14; Length 2473;  
 Matches 31; Conservative 3; Mismatches 36; Indels 35; Gaps 2;

QY 183 ALTPQSGNLTTCVATWKSILKARKSATVNLIVIRCPDPTGGGINIPGVLSLPSLGSFLPT 242  
 Db 2274 AATTGAAGTTCAATTAAATTATATATATGTTCC----- 2307  
 QY 243 WGVVGLAGTMTLTPTCTLTIRCCCR-RRCCGNCNCCRCFCPC 286  
 Db 2308 -----ATTCCATGCGCCACCCACCCCGCGCCCGCCACACACC 2344

## RESULT 8

US-10-274-583-20  
 ; Sequence 20, Application US/10274583  
 ; Publication No. US20030138431A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Exelixis, Inc.

```

: TITLE OF INVENTION: LRRCA3 AS MODIFIERS OF THE p53 PATHWAY AND METHODS OF USE
:
: FILE REFERENCE: EX02-119C
:
: CURRENT APPLICATION NUMBER: US/10/274,563
:
: CURRENT FILING DATE: 2002-10-21
:
: PRIOR APPLICATION NUMBER: 60/338,733
:
: PRIOR FILING DATE: 2001-10-22
:
: PRIOR APPLICATION NUMBER: 60/357,600
:
: PRIOR FILING DATE: 2002-02-15
:
: PRIOR APPLICATION NUMBER: 60/361,196
:
: PRIOR FILING DATE: 2002-03-01
:
: NUMBER OF SEQ ID NOS: 24
:
: SOFTWARE: PatentIn version 3.1
:
: SEQ ID NO 20
:
: LENGTH: 1477
:
: TYPE: PRT
:
: ORGANISM: Homo sapiens
:
US-10-274-563-20

```

Query Match	6.6%	Score 138;	DB 14;	Length 1477;
Best Local Similarity	25.1%;	Pred. No. 0.032;		
Matches 78; Conservative	38;	Mismatches 127;	Indels 68;	Gaps 17;

```

Qy 2 VAAEMERDPP-----SSGSGNEVIEEPQNAARYLAKSSQARFNGCTVS-QGKMLIMALMDMV 56
Dd 322 VAEDEVKQEVTLTAIFYFSPAPAFPIVQIQPTQTEVLVGEBSVTLESAAGHPPIRISWTRDRT 381
Qy 57 VLSVPRMEPIITNDRTFSQRYDGGNFISEMIINHVESDSGNIRCSIQNS-RLHSAY 1145
Dd 382 PLVYDPDPVNTTPS-----GG-----LVIQVNVQDGGSEVACSYSTNNIDSVHTAF 426
Qy 115 LTVQVNGELFIPSVNLVVAENE-----PCEVTCLPSHMTWLPDISW-ELGLVSHSSYYFV 163
Dd 427 IIVQALPQFVTPQDRVVIIEGQVDPQCEAKNP-----PIVAMTKGSGSLSTDRRHLY 481
Qy 170 PERSDLSQASVSIALLPQSGNGLITCYATKXSLKAKRSATNVLV-----IICPDPT- 2220
Dd 482 LSIQGLTR--ISGVALHDQ--GQRECOAV--NIISQKQVAAHLYVQAPRTVPVFASIPSDTT 535
Qy 221 ---GGGINIPGVLSLPSLGFSLP--TWGKVLGLP--AGTMLPFTCYLLI-----264
Dd 536 VEYGVANVQLP-----CSSQGEPEPATIWMKDVQVLTESGKFHISBEGFLTINDVGPADAG 590
Qy 265 RQDCRRRCRG 275
Dd 591 RYECVANTTIG 601

```

RESULT 9  
US-10-231-956A-325

```

1 publication No.: US2004005333A1
2 GENERAL INFORMATION:
3 APPLICANT: Lorens, James B.
4 APPLICANT: Xu, Weiduan
5 APPLICANT: Bogenberger, Jakob
6 APPLICANT: Holland, Sacha
7 APPLICANT: Rigel Pharmaceuticals, Incorporated
8 TITLE OF INVENTION: Modulators of Angiogenesis
9 FILE REFERENCE: 021044-004100US
10 CURRENT APPLICATION NUMBER: US/10/231,956A
11 CURRENT FILING DATE: 2001-08-30
12 NUMBER OF SEQ ID NOS: 522
13 SOFTWARE: FastSeq for Windows Version 3.0
14 SEQ ID NO 325
15 LENGTH: 1479
16 TYPE: prt
17 ORGANISM: Homo sapiens
18 US-10-231-956A-325

```

Query Match	6.6%;	Score 138;	DB 15;	Length 1479;
Best Local Similarity	25.1%;	Pred. No. 0.032;		
Matches 78; Conservative	38;	Mismatches 127;	Indels 68;	Gaps 17

```

0Y 2 VAGANENDDPP-----GSSGMEVIGPCONARVLKSSQAFNCTVS--QGKMLIMMALSIDWY 56
    | : : : : : | : : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 322 VAGEKTOEVLIRKRGSPARPRFTVLOPONTLEVLVGESVTLBESATGHPRRPRISMTHGDR 381
    | : : : : : | : : | : | : | : | : | : | : | : | : | : | : | : | : | : |
0Y 57 VLSVAPMEPIITNDRFTSQRYDOGNGFTSEMIHNHVPESDGNIRCSLONS--RLHGSAV 114
    | : : : : : | : : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 382 FLUPDRNRNIRPS-----GG-----LTIQNVGGDSSEBYACSAIRNNIDSVATHAF 426
    | : : : : : | : : | : | : | : | : | : | : | : | : | : | : | : | : | : |
0Y 115 LTVQVMGELFIPSVNLVVAENE---PCEVTCLPBHMWLPDISW-ELGILLVSHSSYYEV 169
    | : : : : : | : : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 427 IIVGLPQFTVTPQORVVLEGQTVDFQCEAKGNP-----PVIAMTKGSSQSLVDRRHLV 481
    | : : : : : | : : | : | : | : | : | : | : | : | : | : | : | : | : | : |
0Y 170 PEPSLDGAVSLALATPQSNGLTLCVATIMKSLKAKKASATVNTLV-----IRCPQDT- 220
    | : : : : : | : : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 482 LSSGTLR--ISGVALHDO--GOYECAQV--NIISGOKVAHLTLVORVTPVPFASIPSDTT 535
    | : : : : : | : : | : | : | : | : | : | : | : | : | : | : | : | : | : |
0Y 221 ---GGGINIPGLSLSLPISGLSP--TWGKVLGL--AGTMLLTPTCLTILI----- 284
    | : : : : : | : : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 536 VEVGAVNOLP-----CSSQGEPEPAITMKDGVQVYESGKPHISPGCLFLINDVGPADAG 590
    | : : : : : | : : | : | : | : | : | : | : | : | : | : | : | : | : | : |
0Y 265 RCCCCRRRCGG 275
    | : : : : : | : : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 591 RYECVARNITIG 601
    | : : : : : | : : | : | : | : | : | : | : | : | : | : | : | : | : | : |

```

RESULT 10  
US-10-021-660-125  
; Sequence 125, Application US/10021660  
; Publication No. US20030152926A1  
; Patent 20030152926A1

```

? APPLICANT: Murray, Richard
? APPLICANT: Glynnne, Richard
? APPLICANT: Watson, Susan R.
? APPLICANT: EOS Biotechnology, Inc.
? TITLE OF INVENTION: No. US2003015226A1el Methods of Diagnosis of Angiogenesis,
? TITLE OF INVENTION: Compositions and Methods of Screening for Angiogenesis
? TITLE OF INVENTION: Modulators
? FILE REFERENCE: 018501-000710US
? CURRENT APPLICATION NUMBER: US/10/021,660
? CURRENT FILING DATE: 2001-12-06
? PRIOR APPLICATION NUMBER: US/09/784,356
? PRIOR FILING DATE: 2001-02-14
? PRIOR APPLICATION NUMBER: US 09/637,977
? PRIOR FILING DATE: 2000-08-11
? NUMBER OF SEQ ID NOS: 135
? SOFTWARE: FastSeq for Windows Version 3.0
? SEQ ID NO 125
? LENGTH: 1496
? TYPE: PRt
? ORGANISM: Homo sapiens
? US-10-021-660-125

```

Query Match	6.6%;	Score 138;	DB 14;	Length 1496;
Best Local Similarity	25.1%;	Pred. No. 0.033;		
Matches	78;	Conservative	38;	Mismatches 127;
			Indels	68;
			Gaps	17;

```

OY      2  VAGAAENDDPP-----GSSSGNEVINGPONARVLKKSQARFNCFTVS--QGKMLTMAVLSDW 56
Db      339 VAGEKTOEVLIRYSGSPARRFFVYQFONTEVLVBESVYLECSATCHPRPRRISMTGDR 398
OY      57  VLSVPEMPEIITNDRFTSQRYDQGNFTSEMIHNHVEPSDGNIRCSLONS--RLHGSAV 114
Db      399 PLVPDPNRNITPS-----GG-----LYIQNVQGDSEGEVACSAATNIDSVHATAF 443
OY      115 LTQVMGGLFFPSVNLVVAENE-----PCEVTLPEBHTMVLPRISW--ELGLVYSHSYFV 169
Db      444 ITIVALLPEFTYTPQORVVIEGQTVDFQCEAKNPP-----PVIAMTKGGSQSLSDVRRLHV 498
OY      170 PEPSDIGAVSILALTPOSNGLTFCVATWTKSLKARKSATVNLTV-----IRCEQDT- 220
Db      499 LSSGLR--IGCVALHDQ--GOYEQAV--NIGSQKVAHLITVQPRVTPVPASIPSDIT 552
OY      221 --GGGINIPGVLSLPSLGFSLP--TWGKVLGL--AGTMILLTPCTULTI----- 264

```

Db 553 VEVGANVQLP-----CSSQGEPEPAITWNKGVQVTESGKFHISBEGLFTINDVPADAG 607  
QY 265 RCCCCRRCCG 275  
Db 608 RYECVARNITIG 618

RESULT 11  
US-10-331-496A-28

Sequence 28, Application US/10331496A  
Publication No. US20030228305A1  
GENERAL INFORMATION:  
APPLICANT: FRANTZ, GRETCHEN  
APPLICANT: HILLAN, KENNETH J.  
APPLICANT: PHILLIPS, HEIDI S.  
APPLICANT: POLAKIS, PAUL  
APPLICANT: SMITH, VICTORIA  
APPLICANT: SPENCER, SUSAN D.  
APPLICANT: WILLIAMS, P. MICKEY  
APPLICANT: WU, THOMAS D.  
APPLICANT: ZHANG, ZEMIN  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND  
TREATMENT OF TUMOR  
FILE REFERENCE: P5014R1-PCT  
CURRENT APPLICATION NUMBER: US/10/331,496A  
PRIOR FILING DATE: 2002-12-30  
PRIOR APPLICATION NUMBER: US 60/345,444  
PRIOR FILING DATE: 2002-01-02  
PRIOR APPLICATION NUMBER: US 60/351,885  
PRIOR FILING DATE: 2002-01-25  
PRIOR APPLICATION NUMBER: US 60/360,066  
PRIOR FILING DATE: 2002-02-25  
PRIOR APPLICATION NUMBER: US 60/362,004  
PRIOR FILING DATE: 2002-03-05  
PRIOR APPLICATION NUMBER: US 60/366,869  
PRIOR FILING DATE: 2002-03-20  
PRIOR APPLICATION NUMBER: US 60/366,284  
PRIOR FILING DATE: 2002-03-21  
PRIOR APPLICATION NUMBER: US 60/368,679  
PRIOR FILING DATE: 2002-03-28  
PRIOR APPLICATION NUMBER: US 60/404,809  
PRIOR FILING DATE: 2002-08-19  
PRIOR APPLICATION NUMBER: US 60/405,645  
PRIOR FILING DATE: 2002-08-21  
NUMBER OF SEQ ID NOS: 95  
SEQ ID NO 28  
LENGTH: 1496  
TYPE: PRT  
ORGANISM: Homo sapien  
US-10-331-496A-28

Query Match 6.6%; Score 138; DB 15; Length 1496;  
Best Local Similarity 25.1%; Pred. No. 0.033;  
Matches 78; Conservative 38; Mismatches 127; Indels 68; Gaps 17;

QY 2 VAGAMENRDP-----GSGSGNEVIEGPONARVYKGSQARFNCTVS-QGKLIIMWALSDMV 56  
Db 339 VAGEVKTQEVTLRYGSPARPTFVIQPNTEVLVGSVTLKCSATGHPPRISWTRGDR 398  
QY 57 VLSVRPMEPIITNDRFTSQRYDQGNFTSEMIHNHVEPSDSGNIRCSLONS--RLHGSAY 114  
Db 399 PLPVPDRVNIITPS-----GG-----LYIQNVVQGSDEYACSAATNNIDSVHATAF 443  
QY 115 LTVQVMGELFIPSVNLVVAENE-----PCEVTCLPSHWTLPLDISW-ELGLLVSHSSYYFV 169  
Db 444 IIVQALPQFTVPPQDRVVEIGQTVDFQCEAKGNP-----FVIAMTGGSGQLSDVRHLY 498  
QY 170 PEPSDQSAVSIATLTPQSNGLTICVATWKSLEKRSATVNLV-----IRCPQDT- 220  
Db 499 LSSGTLR--ISGVALLHDQ--QYRCQAV--NIISQKVAHLTVQPRVTPVFASISPDIT 552  
QY 221 ---GGGINIPGVLSLPLGFSLP--TWGKVLGL--AGTMLLTPCTTLT----- 264

Db 553 VEVGANVQLP-----CSSQGEPEPAITWNKGVQVTESGKFHISBEGLFTINDVPADAG 607  
QY 265 RCCCCRRCCG 275  
Db 608 RYECVARNITIG 618

RESULT 12  
US-10-211-462-87

Sequence 87, Application US/10211462  
Publication No. US20040033495A1  
GENERAL INFORMATION:  
APPLICANT: Murray, Richard  
APPLICANT: Glynn, Richard  
APPLICANT: Watson, Susan R.  
APPLICANT: Aziz, Natasha  
APPLICANT: Eos Biotechnology, Inc.  
TITLE OF INVENTION: Methods of Diagnosis of Angiogenesis, Compositions and  
FILE REFERENCE: 018501-006200US  
CURRENT APPLICATION NUMBER: US/10/211,462  
PRIOR FILING DATE: 2003-02-13  
PRIOR APPLICATION NUMBER: US 09/784,356  
PRIOR FILING DATE: 2001-02-14  
PRIOR APPLICATION NUMBER: US 09/791,390  
PRIOR FILING DATE: 2001-02-22  
PRIOR APPLICATION NUMBER: US 60/310,025  
PRIOR FILING DATE: 2001-08-03  
PRIOR APPLICATION NUMBER: US 60/334,244  
PRIOR FILING DATE: 2001-11-29  
NUMBER OF SEQ ID NOS: 230  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 87  
LENGTH: 1496  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-211-462-87

Query Match 6.6%; Score 138; DB 15; Length 1496;  
Best Local Similarity 25.1%; Pred. No. 0.033;  
Matches 78; Conservative 38; Mismatches 127; Indels 68; Gaps 17;

QY 2 VAGAMENRDP-----GSGSGNEVIEGPONARVYKGSQARFNCTVS-QGKLIIMWALSDMV 56  
Db 339 VAGEVKTQEVTLRYGSPARPTFVIQPNTEVLVGSVTLKCSATGHPPRISWTRGDR 398  
QY 57 VLSVRPMEPIITNDRFTSQRYDQGNFTSEMIHNHVEPSDSGNIRCSLONS--RLHGSAY 114  
Db 399 PLPVPDRVNIITPS-----GG-----LYIQNVVQGSDEYACSAATNNIDSVHATAF 443  
QY 115 LTVQVMGELFIPSVNLVVAENE-----PCEVTCLPSHWTLPLDISW-ELGLLVSHSSYYFV 169  
Db 444 IIVQALPQFTVPPQDRVVEIGQTVDFQCEAKGNP-----FVIAMTGGSGQLSDVRHLY 498  
QY 170 PEPSDQSAVSIATLTPQSNGLTICVATWKSLEKRSATVNLV-----IRCPQDT- 220  
Db 499 LSSGTLR--ISGVALLHDQ--QYRCQAV--NIISQKVAHLTVQPRVTPVFASISPDIT 552  
QY 221 ---GGGINIPGVLSLPLGFSLP--TWGKVLGL--AGTMLLTPCTTLT----- 264  
Db 265 RCCCCRRCCG 275  
Db 608 RYECVARNITIG 618

RESULT 13  
US-10-243-552-899  
Sequence 899, Application US/10243552  
Publication No. US20030224379A1  
GENERAL INFORMATION:



```

; APPLICANT: Tang, Y. Tom
; APPLICANT: Yang, Yonghong
; APPLICANT: Wang, Zhiwei
; APPLICANT: Wang, Gezhi
; APPLICANT: Ma, Yundong
; TITLE OF INVENTION: Novel Nucleic Acids and
; FILE REFERENCE: 807A
; CURRENT APPLICATION NUMBER: US/10/243,552
; CURRENT FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: US 60/322,511
; PRIOR FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: PCT/US00/35017
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/488,725
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: PCT/US01/02623
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: US 09/491,404
; PRIOR FILING DATE: 2000-01-25
; PRIOR APPLICATION NUMBER: PCT/US01/03800
; PRIOR FILING DATE: 2001-02-05
; PRIOR APPLICATION NUMBER: US 09/496,914
; PRIOR FILING DATE: 2000-02-03
; PRIOR APPLICATION NUMBER: US 09/560,875
; PRIOR FILING DATE: 2000-04-27
; PRIOR APPLICATION NUMBER: PCT/US01/04927
; PRIOR FILING DATE: 2001-02-26
; Remaining prior application data removed - See file wrapper or PALM.
; SOFTWARE: pc_fl_genes version 5.0
; SEQ ID NO 899
; LENGTH: 1498
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-243-552-899

Query Match
Best Local Similarity 25.1%; Score 138; DB 15; Length 1498;
Matches 78; Conservative 38; Mismatches 127; Indels 68; Gaps 17;

QY 2 VAGAMENRDP-----GSGGNEVIEGPQARVYLGSGQARFNCTVS--QGWKLIMWALSDMV 56
DB 339 VAGVKTQGEVTLRYFGSPARPTFVIQPNTEVLVGSVTLKCSATGHPPRISWTRGDT 398
QY 57 VLSVRPMEPIITNDRFTSORVDGNGFTSEMIITHNVEPSDSGNIRCSLONS--RLHGSAY 114
DB 399 PLVPBPRVNVITPS-----GG-----LYIQNVVQDSGEYVCSATNNIDSVHATAF 443
QY 115 LTVQVMGELFIPSVNLVVAENE---PCEVTCLPBHMTWLPDISW-ELGLVSHSSYFV 169
DB 444 IIVQALPQFTVTPQDRVIEGQTVDPQCEAKGNP-----PVIATKGSQSLVDRRLV 498
QY 170 PEPSDLSQASVIALTPQSGNGLTVCATWKSIAKARSATVNLTV-----IRCPQDT- 220
DB 499 LSSGTLR--ISGVALLHDQ--GGYECQAV--NIISQKVVAHLTVQPRVTPVPAISPSDTT 552
QY 221 ---GGGINIPGVLSLPSLIGFSLP--TWGKVGGL--AGTMLLTPCTTLTI----- 264
DB 553 VEVGANVOLP-----CSSGGEPEPAITWVKGVQVTESGKPHISPEGLITINDVGPADAG 607
QY 265 RCCCCRRRCGG 275
DB 608 RYECVARNITIG 618

RESULT 14
US-10-276-774-1957
; Sequence 1957, Application US/10276774
; Publication No. US20040053245A1
; GENERAL INFORMATION:

```

```

; APPLICANT: HySeq, Inc.
; APPLICANT: Tang, Y. Tom et al
; TITLE OF INVENTION: No. US20040053245A1el Nucleic Acids and Polypeptides
; FILE REFERENCE: 21272-030
; CURRENT APPLICATION NUMBER: US/10/276,774
; CURRENT FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: 09/560,875
; PRIOR FILING DATE: 2000-04-27
; PRIOR APPLICATION NUMBER: 09/496,914
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 2700
; SOFTWARE: Custom
; SEQ ID NO 1957
; LENGTH: 1498
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-276-774-1957

Query Match
Best Local Similarity 25.1%; Score 136; DB 15; Length 1498;
Matches 78; Conservative 38; Mismatches 127; Indels 68; Gaps 17;

QY 2 VAGAMENRDP-----GSGGNEVIEGPQARVYLGSGQARFNCTVS--QGWKLIMWALSDMV 56
DB 339 VAGVKTQGEVTLRYFGSPARPTFVIQPNTEVLVGSVTLKCSATGHPPRISWTRGDT 398
QY 57 VLSVRPMEPIITNDRFTSORVDGNGFTSEMIITHNVEPSDSGNIRCSLONS--RLHGSAY 114
DB 399 PLVPBPRVNVITPS-----GG-----LYIQNVVQDSGEYVCSATNNIDSVHATAF 443
QY 115 LTVQVMGELFIPSVNLVVAENE---PCEVTCLPBHMTWLPDISW-ELGLVSHSSYFV 169
DB 444 IIVQALPQFTVTPQDRVIEGQTVDPQCEAKGNP-----PVIATKGSQSLVDRRLV 498
QY 170 PEPSDLSQASVIALTPQSGNGLTVCATWKSIAKARSATVNLTV-----IRCPQDT- 220
DB 499 LSSGTLR--ISGVALLHDQ--GGYECQAV--NIISQKVVAHLTVQPRVTPVPAISPSDTT 552
QY 221 ---GGGINIPGVLSLPSLIGFSLP--TWGKVGGL--AGTMLLTPCTTLTI----- 264
DB 553 VEVGANVOLP-----CSSGGEPEPAITWVKGVQVTESGKPHISPEGLITINDVGPADAG 607
QY 265 RCCCCRRRCGG 275
DB 608 RYECVARNITIG 618

RESULT 15
US-10-116-275-240
; Sequence 240, Application US/10116275
; Publication No. US20030211476A1
; GENERAL INFORMATION:
; APPLICANT: Eian Pharmaceutical Technology
; APPLICANT: O'Mahony, Daniel J.
; APPLICANT: Brayden, David
; APPLICANT: Byrne, Daraigh
; APPLICANT: Lamokin, Imelda
; APPLICANT: Higgins, Lisa
; TITLE OF INVENTION: Genetic Analysis of Peyer's Patches and M Cells and Methods and
; FILE REFERENCE: E1067/20087
; CURRENT APPLICATION NUMBER: US/10/116,275
; CURRENT FILING DATE: 2002-10-04
; NUMBER OF SEQ ID NOS: 349
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 240
; LENGTH: 750
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-116-275-240

Query Match
Best Local Similarity 25.1%; Score 136; DB 15; Length 750;
Matches 78; Conservative 38; Mismatches 127; Indels 68; Gaps 17;

```

	Matches	62;	Conservative	34;	Mismatches	101;	Indels	50;	Gaps	10;
Qy	9	RDPGSGGNEV	-----	IEGPONARVLKGSQARFNCTVSQGW--KLIMW	50					
Db	215	RNPASSRTGNEAEVRILSDPGLHRLQLYFLQRPNSNVVAIEGKDAVLECCVS-GYPPPSFTW	-----		273					
Qy	51	ALSDMWVLSVRMEPIIINDRFTSQRYDQGNFTSEMIHNVPPSDGNIRC--SLQNSR	-----		108					
Db	274	LRGEVI-----	-----	QLRSKKYSLLG--SNLLISNVTDDSDGMYTCVVTYKNN	318					
Qy	109	LHGSAYLVQVMGELFIPSVNLVVAENEPCEVTCLPSHMTWLPDISW-BLGILVSHSSY	-----		167					
Db	319	ISASAEITVLPWFPLNHPNVLVAYESMDIEFECTVSGKP-VPTVNMKNGDVVTPSDYF	-----		377					
Qy	168	FVPEPSDLQSAVSTIALTPQNGTILTCVATKSLKARKSATVNLTVIRCPQDTGGGINIP	-----		227					
Db	378	QIVGGSNLR-----ILGVVKSDEGFYQCVAENEGNAQTSALIVPKPAIPSSS-----	-----		426					
Qy	228	GVLSSLP	234							
Db	427	-VLPSAP	432							

Search completed: February 22, 2005, 19:55:32  
 Job time : 74.253 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

# OM nucleic - nucleic search, using sw model

Run on: February 25, 2005, 00:30:42 ; Search time 227.028 Seconds  
(without alignments)  
8937.164 Million cell updates/sec

Title: US-09-729-264-5

Perfect score: 1240

Sequence: 1 aggtctgagtcacgccacaca.....gtaatacaactgtatag 1240

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 120784 seqs, 81813859 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

## Database :

Issued Parents NA: \*  
1: /cgn2\_6/prodata/1/ina/5A\_COMB.seq: \*  
2: /cgn2\_6/prodata/1/ina/5B\_COMB.seq: \*  
3: /cgn2\_6/prodata/1/ina/5A\_COMB.seq: \*  
4: /cgn2\_6/prodata/1/ina/5B\_COMB.seq: \*  
5: /cgn2\_6/prodata/1/ina/5B\_COMB.seq: \*  
6: /cgn2\_6/prodata/1/ina/backfile61.seq: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	55	4.4	36156	US-09-949-016-12128	Sequence 12128, A
2	55	4.4	36156	US-09-949-016-13261	Sequence 13261, A
3	51.8	4.2	397	US-09-253-691-3	Sequence 3, Appl1
4	51.4	4.1	1918	US-09-270-767-12780	Sequence 12780, A
5	49.4	4.0	601	US-09-949-016-13565	Sequence 13565, A
6	49.4	4.0	601	US-09-949-016-13565	Sequence 13565, A
7	49.4	4.0	187595	US-09-949-016-15546	Sequence 15546, A
8	48.6	3.9	601	US-09-949-016-125382	Sequence 125382, A
9	48.6	3.9	139552	US-09-949-016-15300	Sequence 15300, A
10	48.4	3.9	4288	US-09-497-822C-20	Sequence 20, Appl1
11	48.2	3.9	325	US-08-531-927B-3	Sequence 3, Appl1
12	47.6	3.8	68035	US-09-949-016-16219	Sequence 16219, A
13	47	3.8	1989	US-09-270-767-14129	Sequence 14129, A
14	46.6	3.8	36075	US-09-949-016-16572	Sequence 16572, A
15	46.6	3.8	36075	US-09-949-016-16572	Sequence 16572, A
16	46.6	3.8	36625	US-09-949-016-12788	Sequence 12788, A
17	46.6	3.8	37133	US-09-949-016-16570	Sequence 16570, A
18	46.6	3.8	37133	US-09-949-016-16570	Sequence 16570, A
19	46.4	3.7	1989	US-09-270-767-14129	Sequence 14129, A
20	46.4	3.7	4773	US-09-949-016-14953	Sequence 14953, A
21	46.4	3.7	21855	US-09-949-016-155317	Sequence 155317, A
22	46	3.7	601	US-09-949-016-16090	Sequence 16090, A
23	46	3.7	75480	US-09-949-016-17590	Sequence 17590, A
24	45.8	3.7	247289	US-09-949-016-17590	Sequence 17590, A
25	45.2	3.6	601	US-09-949-016-199625	Sequence 199625, A
26	45.2	3.6	373182	US-09-949-016-17371	Sequence 17371, A
27	45.2	3.6	373694	US-09-949-016-12062	Sequence 12062, A

C 28	45	3.6	390	4	US-09-573-080A-101	Sequence 101, App
C 29	45	3.6	1532	4	US-09-270-767-12950	Sequence 12950, A
C 30	44.8	3.6	253	4	US-09-491-356C-13	Sequence 13, Appl1
C 31	44.8	3.6	265	4	US-09-491-356C-14	Sequence 14, Appl1
C 32	44.8	3.6	265	4	US-09-491-356C-16	Sequence 16, Appl1
C 33	44.8	3.6	265	4	US-09-491-356C-17	Sequence 17, Appl1
C 34	44.8	3.6	265	4	US-09-491-356C-18	Sequence 18, Appl1
C 35	44.8	3.6	601	4	US-09-949-016-151553	Sequence 151553, A
C 36	44.8	3.6	601	4	US-09-949-016-151554	Sequence 151554, A
C 37	44.8	3.6	1876	4	US-09-324-258-1	Sequence 1, Appl1
C 38	44.8	3.6	6794	4	US-09-491-356C-2	Sequence 2, Appl1
C 39	44.8	3.6	55298	4	US-09-491-356C-1	Sequence 1, Appl1
C 40	44.8	3.6	169334	4	US-09-949-016-15999	Sequence 15999, A
C 41	44.8	3.6	258775	4	US-09-949-016-16435	Sequence 16435, A
C 42	44.4	3.6	601	4	US-09-949-016-189574	Sequence 189574, A
C 43	44.4	3.6	601	4	US-09-949-016-189575	Sequence 189575, A
C 44	44.4	3.6	197131	4	US-09-949-016-12675	Sequence 12675, A
C 45	44.4	3.6	197132	4	US-09-949-016-17170	Sequence 17170, A

## ALIGNMENTS

```

RESULT 1
US-09-949-016-12128
; Sequence 12128, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12128
; LENGTH: 36156
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(36156)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-12128

Query Match 4.4%; Score 55; DB 4; Length 36156;
Best Local Similarity 77.0%; Pred. No. 6.3e-05;
Matches 67; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 32 TTCTAGCTGCATACAGCACCATACCTGCTGCTTAAGCAATGGAAGCAT 91
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 387 TTCTAGCTGCATACAGCACCATACCTGCTGCTTAAGCAATGGAAGCAT 446
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 92 TTGCTACGCTTCCAGACCTGTAGGT 118
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 447 TGTCTTACAGTCTGTGAGGCGCGTAGGT 473
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

RESULT 2
US-09-949-016-13261
; Sequence 13261, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

```

```
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 13261
LENGTH: 36156
TYPE: DNA
ORGANISM: Human
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)_(36156)
OTHER INFORMATION: n = A,T,C or G
US-09-949-016-13261
```

```
Query Match
Best Local Similarity 4.4%; Score 55; DB 4; Length 36156;
Matches 67; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 32 TTTCCTAGCTGCCATTAACAAGCACCATACTGTGCTTAGAACATGAAAGGCAAT 91
DB 387 TTCTGGGGCTGCCTATTAACAAGCACCATACTGTGCTTAGAACATGAAATTTAT 446
QY 92 TTGCTCAGGTTCCAGAGCGTAGGT 118
DB 447 TGTCTTACAGTTCTGAGGCGCTAAGT 473
```

```
RESULT 3
US-09-253-691-3/c
Sequence 3, Application US/09253691
Patent No. 6124100
GENERAL INFORMATION:
APPLICANT: Dong Kyu JIN
TITLE OF INVENTION: Diagnostic Method and Kit for Neuropsychiatric Diseases
FILE REFERENCE: 1942/36
CURRENT APPLICATION NUMBER: US/09/253,691
CURRENT FILING DATE: 1999-02-22
EARLIER APPLICATION NUMBER: KR 98-6,278
PRIOR FILING DATE: 1996-02-26
NUMBER OF SEQ ID NOS: 3
SOFTWARE: WordPerfect 6.1/Windows
SEQ ID NO: 3
LENGTH: 397
TYPE: DNA
ORGANISM: human
US-09-253-691-3
```

```
Query Match
Best Local Similarity 4.2%; Score 51.8; DB 3; Length 397;
Matches 89; Conservative 0; Mismatches 62; Indels 0; Gaps 0;

QY 873 GCTGCTGCTGTCGCCGCTGTTGTTGCTGCTCACTGCTGCTGCTGTTGTTCT 932
DB 200 GCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 141
QY 933 GCTGTAAGAAAGAAAGAGATTTGATTTCAATTCAAAAGAAATCGAAAGAGAGA 992
DB 140 GCTGTTGCTGCTTTTGGCTGCTGCTGAACAATTCAAAAGAGATATTTAAAAACA 81
QY 993 CAACAAAGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1023
DB 80 AACTTAAGATATAATACACATGAGAGAAA 50
```

RESULT 4

```
US-09-270-767-12780/c
Sequence 12780, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO: 12780
LENGTH: 1918
TYPE: DNA
ORGANISM: Drosophila melanogaster
US-09-270-767-12780
```

```
Query Match
Best Local Similarity 4.1%; Score 51.4; DB 4; Length 1918;
Matches 58; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 871 ACGTCTGCTGCTGCTGCCGCCGCTGCTGTTGTTGCTGCACTGCTGCGTGTGTT 930
DB 560 AATGCTGCTGCTGCTGCTGCTGCTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 501
QY 931 CTGCTGTAG 939
DB 500 CTGCTGTAG 492
```

```
RESULT 5
US-09-949-016-135655/c
Sequence 135655, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 135655
LENGTH: 601
TYPE: DNA
ORGANISM: Human
US-09-949-016-135655
```

```
Query Match
Best Local Similarity 4.0%; Score 49.4; DB 4; Length 601;
Matches 77; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

QY 4 TGTAGTCTACCCCAACAGTGTGATGATTTCTAGAGCTGCTCAATCAAGCCCATAC 63
DB 328 TGTAAATGAAGCTGGAGGTTAATAAYCTCTTGAGGCTGCCATTAACAAATACCA 269
QY 64 CTGCTGCTTAGAACAATGAAAGGCAATTTGCTCAGAGTTCCAGAAAGCTGTAGTT 123
DB 268 TTGGTGGCTGCAGCAACTGAATTAATTTCTCAGGTTTGAAGCTGTAGTGAAG 209
QY 124 GTC 126
DB 208 GTC 206
```

RESULT 6

Query Match	4.0%;	Score 49.4;	DB 4;	Length 187595;
Best Local Similarity	62.6%;	Pred. No. 0.0098;		
Matches 77;	Conservative 0;	Mismatches 46;	Indels 0;	Gaps 0

```

RESULT 9
US-09-949-016-15300
: Sequence 15300, Application US/09949016
: Patent No. 6812339
: GENERAL INFORMATION:
: APPLICANT: VENTER, J. Craig et al.
: TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
: TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
: FILE REFERENCE: CLO01307
: CURRENT APPLICATION NUMBER: US/09/949,016
: CURRENT FILING DATE: 2000-04-14
: PRIOR APPLICATION NUMBER: 60/241,755
: PRIOR FILING DATE: 2000-10-20
: PRIOR APPLICATION NUMBER: 60/237,768
: PRIOR FILING DATE: 2000-10-03
: PRIOR APPLICATION NUMBER: 60/231,498
: PRIOR FILING DATE: 2000-09-08
: NUMBER OF SEQ ID NOS: 207012
: SOFTWARE: ParSeq for Windows Version 4.0
: SEQ ID NO 15300
:
: LENGTH: 139552

```

```

RESULT 11
US-08-531-927B-3/c
; Sequence 3, Application US/08531927B
; Patent No. 5840491
; GENERAL INFORMATION:
; APPLICANT: Kakizuka, Akira
; TITLE OF INVENTION: DNA Sequence Encoding the Machado-Joseph
; Patent No. 5840491
; TITLE OF INVENTION: Disease Gene and Uses Thereof
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
; STREET: Two Millitia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02173-4799

```

Query Match	3.8%;	Score 47.6;	DB 4;	Length 2733;
Best Local Similarity	75.6%;	Pred. No. 0.002;		
Matches 59;	Conservative	0;	Mismatches 19;	Indels 0;
				Gaps 0;

Oy	873	GCTGTCGTGCTGCGCCCTCGTGTGTTGAGCTGCAACTCGTCGCGCTGTTGTTCT	932
Db	2284	GCTGTCGTGCTGCTGCTGTGTGTGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT	2225
Oy	933	GCTGTAAAGAAAAAG	950
Db	2224	GCTGCTGCTGAAGCTGAG	2207

RESULT 13  
US-09-949-016-16219

```

1  APPLICANT: WENTNER, J. Craig et al.
2  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
3  TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
4  FILE REFERENCE: C1001307
5  CURRENT APPLICATION NUMBER: US/09/949,016
6  CURRENT FILING DATE: 2000-04-14
7  PRIOR APPLICATION NUMBER: 60/241,755
8  PRIOR FILING DATE: 2000-10-20
9  PRIOR APPLICATION NUMBER: 60/237,768
10 PRIOR FILING DATE: 2000-10-03
11 PRIOR APPLICATION NUMBER: 60/231,498
12 PRIOR FILING DATE: 2000-09-08
13 NUMBER OF SEQ ID NOS: 207012
14 SOFTWARE: fastseq for Windows Version 4.0
15 SEQ ID NO 16219
16 LENGTH: 68035
17 TYPE: DNA
18 ORGANISM: Human
19 US-09-949-016-16219

```

Query Match	3.8%;	Score 47;	DB 4;	Length 68035;
Best Local Similarity	68.4%;	Pred. No. 0.027;		
Matches 65;	Conservative 0;	Mismatches 30;	Indels 0;	Gaps 0;

OY		32	TTTCTAGGGCGCATTAACAAGACATTAACCTGCGGTTCGAACTAATGAAGAAGGCAT	91
Dd		49332	TTTTTAGGGGGGCCATTAAACAAAAGTACCACAGACTGGGGTGCCATTAAACAACAGAAATGCGT	49299
OY		92	TTTGCTACGGTTCCAAAGCCTGTAGGTTCTGGGTC	126
Dd		49292	TGTTCTCAAGTTCTGAGGCTGGAAATTTCAAAGTC	49336

RESULT 14  
HE-00-040-015 16571/2

```

: Sequence 16571, Application US/09949016
: Patent No. 6812339
:
: GENERAL INFORMATION:
: APPLICANT: VENTER, J. Craig et al.
: TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
: TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
: FILE REFERENCE: CLO01307
:
: CURRENT APPLICATION NUMBER: US/09/949,016
: CURRENT FILING DATE: 2000-04-14
:
: PRIOR APPLICATION NUMBER: 60/241,755
: PRIOR FILING DATE: 2000-10-20
:
: PRIOR APPLICATION NUMBER: 60/237,768
: PRIOR FILING DATE: 2000-10-03
:
: PRIOR APPLICATION NUMBER: 60/231,498
: PRIOR FILING DATE: 2000-09-08
:
: NUMBER OF SEQ ID NOS: 207012
:
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 16571
:
: LENGTH: 36075
:
: TYPE: DNA
:
: ORGANISM: Human
: US-09-949-016-16571

```

Query Match 3.8%; Score 46.6; DB 4; Length 36075;

Best Local Similarity 58.2%; Pred. NO. 0.023;  
Matches 82; Conservative 0; Mismatches 59; Indels 0; Gaps 0;

0y 32TTCTCTGGGCTGCATATCAAGAAGACCATTAACCTGGTGGCTAGAACCAATGGAAAGGCAT 91  
Db 25858 TTCCAAAGGCTCCATATCAAGTGAACCAACTAGTGGCTTAAAACACAGAACTTTAT 25799

Accession	Sequence	Length
QY	92TTGCTCAGGTTCCAGAGCTGTAGGTTCTGGTCTGGTATGAAATCATAGAAAGGCCCC	151
Db	25798 TCTCTCCAGTTCTGAGGCCAACAATTCAAAAGTCCAGGTTTGGCACAAGCTGTCTCCC	25739

Qy	152	CAGATGCAACAGTCTGAAG	172
Db	25738	TCTGAAGCACACGTGTTAAG	25718

RESULT 15  
US-09-949-016-16572/c

```

: Sequence 16572, Application US/09949016
: Patent No. 681239
:
: GENERAL INFORMATION:
: APPLICANT: VENTER, J. Craig et al.
: TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
: TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
: FILE REFERENCE: CLO01307
: CURRENT APPLICATION NUMBER: US/09/949,016
: CURRENT FILING DATE: 2000-04-14
: PRIOR APPLICATION NUMBER: 60/241,755
: PRIOR FILING DATE: 2000-10-20
: PRIOR APPLICATION NUMBER: 60/237,768
: PRIOR FILING DATE: 2000-10-03
: PRIOR APPLICATION NUMBER: 60/231,498
: PRIOR FILING DATE: 2000-09-08
: NUMBER OF SEQ ID NOS: 207012
: SOFTWARE: FASTSEQ for Windows Version 4.0
: SEQ ID NO 16572
:
: LENGTH: 36075
:
: TYPE: DNA
: ORGANISM: Human
: US-09-949-016-16572

```

Query Match	3.8%	Score 46.6;	DB 4;	length 36075;
Best Local Similarity	58.2%;	Pred. No. 0.023;		
Matches	82;	Conservative	0;	Mismatches 59;
			Indels	0;
			Gaps	0;

Qy	32	TTTCTGCGCGCATATACAAGACCATTA	CCTGCTGGCTTAGACAATGGAAGGCAT	91
Db	25858	TTCCAAAGGCTGCATACCAAGTGACCA	CACTAGCTGGCTTTAAACACAGAGCTTAT	25799

QY	92	TTTGCTACGGTTCACGAAGCTGTAGGTTCTGGGTCTGGTAATGAAATCATAGAAGGCCCC	151
Db	25798	TCCTCTCCAGTTCGTGAGGCCAACAACTTCAAGTCCAGGTTTTGGCACAGCTGTCTCCC	25799

Qy 152 CAGATGCAACAGTCTCTGAAG 172  
| | | | |  
Db 25738 TCTGAAGCACACGTGGTTAAG 25718

Search completed: February 25, 2005, 00:51:56  
Job time : 231.028 secs

Job time : 231.028 sec

**This Page Blank (uspto)**



Result No.	Score	Query Match	Length	DB	ID	Description
1	1126.4	90.8	2051	17	US-10-104-047-1104	Sequence 1104, App
2	270.6	21.8	474	10	US-09-918-995-3342	Sequence 3342, App
3	188.8	15.2	401	9	US-09-864-761-16305	Sequence 16305, A
4	140.4	11.3	398	9	US-09-983-965-4945	Sequence 4945, Ap
5	54.2	4.4	392112	18	US-10-812-232-3	Sequence 3, Appli
6	53.2	4.3	404	10	US-09-918-995-5026	Sequence 5026, App
7	53	4.3	203264	13	US-10-087-132-988	Sequence 988, App
8	50.6	4.1	775	17	US-10-424-559-16675	Sequence 16675, A
9	50.4	4.1	609	13	US-10-027-632-43431	Sequence 43431, A
10	50.4	4.1	609	13	US-10-027-632-299775	Sequence 299775, A
11	50.4	4.1	609	17	US-10-027-632-43431	Sequence 43431, A

C 12	50.2	4.1	609	17	US-10-027-632-299775	Sequence 299775
C 13	50.2	4.0	650	13	US-10-027-632-201953	Sequence 201953
C 14	50.2	4.0	650	17	US-10-027-632-201953	Sequence 201953
C 15	50.2	4.0	68123	18	US-10-741-601-1697	Sequence 5697, Ap
C 16	50.2	4.0	68123	19	US-10-741-601-17774	Sequence 17774, I
C 17	49.6	4.0	606	13	US-10-027-632-134169	Sequence 134169
C 18	49.6	4.0	606	17	US-10-027-632-134169	Sequence 134169
C 19	48.8	3.9	382	18	US-10-674-1244-21672	Sequence 21672, I
C 20	47.6	3.8	2733	18	US-10-384-107-11	Sequence 11, Appl
C 21	47.6	3.8	77932	16	US-10-225-810-11	Sequence 11, Appl
C 22	47.6	3.8	250000	16	US-10-225-810-26	Sequence 26, Appl
C 23	47	3.8	1143	15	US-10-261-078-5	Sequence 5, Appl1
C 24	46.6	3.8	300	14	US-10-076-555-314	Sequence 314, Appl
C 25	46.6	3.8	759	14	US-10-076-555-700	Sequence 700, Appl
C 26	46.4	3.7	14152	9	US-09-764-869-1573	Sequence 1573, Ap
C 27	46.4	3.7	14152	14	US-10-0291-504-1573	Sequence 1573, Ap
C 28	46.4	3.7	14152	17	US-10-027-577-1573	Sequence 1573, Ap
C 29	46.2	3.7	381	18	US-10-357-930-54485	Sequence 54485, I
C 30	46.2	3.7	592	16	US-10-029-386-11128	Sequence 11128, I
C 31	46.2	3.7	13761	18	US-10-741-601-5743	Sequence 5743, Ap
C 32	46.2	3.7	13761	19	US-10-741-600-17892	Sequence 17892, Ap
C 33	46.2	3.7	546025	18	US-10-719-993-6862	Sequence 6862, Ap2
C 34	46	3.7	513	18	US-10-357-930-47995	Sequence 47995, I
C 35	46	3.7	2005	13	US-10-027-632-257598	Sequence 257598
C 36	46	3.7	2005	17	US-10-027-632-257598	Sequence 257598
C 37	46	3.7	2706	17	US-10-620-514-4	Sequence 4
C 38	46	3.7	3577	13	US-10-008-7394-1	Sequence 1, Appl
C 39	46	3.7	11004	17	US-10-620-514-1	Sequence 1, Appl
C 40	45.8	3.7	201	18	US-10-741-601-8587	Sequence 8587, Appl
C 41	45.8	3.7	201	18	US-10-741-601-12705	Sequence 12705, I
C 42	45.8	3.7	201	19	US-10-741-600-22941	Sequence 22941, I
C 43	45.8	3.7	405	18	US-10-741-600-30985	Sequence 30985, I
C 44	45.8	3.7	405	19	US-10-357-930-56357	Sequence 56357, I
C 45	45.8	3.7	815	13	US-10-027-632-157282	Sequence 157282, I

## ALIGNMENTS

```

RESULT 1
US-10-104-047-1104
; Sequence 1104, Application US//10104047
; Publication No. US20030236392A1
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: NO. US20030236392A1e1 full length cDNA
; FILE REFERENCE: H1-A0105
; CURRENT APPLICATION NUMBER: US/10/104,047
; CURRENT FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER:
; PRIOR FILING DATE:
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1104
; LENGTH: 2051
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-104-047-1104

```

	Query Match	Similarity	Score	IDB	Length
Best local	90.8%	99.5%	1126.4	17	2051
Matches	1130	Conservative	0	Mismatches	6
				Indels	0
				Gaps	0
QY	105	CAGAAAGCTGTAGGTTCTTGGTCTGTGTATTAAGTCATTAAGAGGCCCAAGATGCAACAG	16		
Db	192	CAGGTGTGAACGGTTCTGGGCTCTGTATATGAAGTCATTAAGAGGCCCAAGATGCAACAG	251		
QY	165	TCTGTAAAGGGCTCCAGAGGCTCGTTCAATCACTACGTCCTCCAGAGGGCTGGAAGCTCATCA	224		
Db	252	TCTGTAAAGGGCTCCAGAGGCTCGTTCAATCACTACGTCCTCCAGAGGGCTGGAAGCTCATCA	311		
QY	225	TGTGGGCTCTCAGTGAACATGTTGTTGCTAAAGCGTCAGAGCCCATGAGCCCATCATCAACCA	284		

Db 312 TGTGGCTCTGATGACATGCTGTGCTAAGGCTCAGGCGCATGAGCCATCATCACCA 371  
 QY 285 ATGACCGCTTCACTCTCAGAGGTACGACGAGGCGGGAATTCACCTCGAGATGATCA 344  
 Db 372 ATGACCGCTTCACTCTCAGAGGTACGACGAGGCGGGAATTCACCTCGAGATGATCA 431  
 QY 345 TCCACAATGTGAGCCCGAGTATTTGGGGAACATAGATGACAGCTCCGAGAACAGTGGC 404  
 Db 432 TCCACAATGTGAGCCCGAGTATTTGGGGAACATAGATGACAGCTCCGAGAACAGTGGC 491  
 QY 405 TGCATGATCTGCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCT 464  
 Db 492 TGCATGATCTGCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTACCT 551  
 QY 465 ATCTGTAGTGTGCTGAGAAATGAACCTTGTGAAGTTACTTGTCTTACCTTACCTTACCT 524  
 Db 552 ATCTGTAGTGTGCTGAGAAATGAACCTTGTGAAGTTACTTGTCTTACCTTACCTTACCT 611  
 QY 525 GGGTCCCGGATATTTCTGAGGAGCTCGGTCTCTGTGCTGAGGAGCTTACCTTACCTTACCT 584  
 Db 612 GGGTCCCGGATATTTCTGAGGAGCTCGGTCTCTGTGCTGAGGAGCTTACCTTACCTTACCT 671  
 QY 585 TTCCGGAGCCGAGGAGCTTCAAAAGTCAAGTACATCTGAGCTTGAACCCGACAGAGCA 644  
 Db 672 TTCCGGAGCCGAGGAGCTTCAAAAGTCAAGTACATCTGAGCTTGAACCCGACAGAGCA 731  
 QY 645 ATGGAGCTTGAATCTGAGGAGCTTCAAAAGTCAAGTACATCTGAGCTTGAACCCGACAG 704  
 Db 732 ATGGAGCTTGAATCTGAGGAGCTTCAAAAGTCAAGTACATCTGAGCTTGAACCCGACAG 791  
 QY 705 TAAATCTCACTGTGATTCGCTGCTCCCAAGACCTGAGAGGATTAATTAATTCAGAGTG 764  
 Db 792 TAAATCTCACTGTGATTCGCTGCTCCCAAGACCTGAGAGGATTAATTAATTCAGAGTG 851  
 QY 765 TATATCAAGTTTACGAGTTTACGTTTTCATTCGCTTACCTTGGGCAAGTTGACCTTG 824  
 Db 852 TATATCAAGTTTACGAGTTTACGTTTTCATTCGCTTACCTTGGGCAAGTTGACCTTG 911  
 QY 825 GACTACGAGCAGCAGTCTTCTGACGCGAGCTGATCTTCAATTAAGCTGCTGCTGCT 884  
 Db 912 GACTACGAGCAGCAGTCTTCTGACGCGAGCTGATCTTCAATTAAGCTGCTGCTGCT 971  
 QY 885 GCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 944  
 Db 972 GCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1031  
 QY 945 AAAAGAGATTTGATTCATTTCAAAAGAAATCTGAAAAGAAAGAAAGAAAGAAAGAA 1004  
 Db 1032 AAAAGAGATTTGATTCATTTCAAAAGAAATCTGAAAAGAAAGAAAGAAAGAAAGAA 1091  
 QY 1005 CTGAGCAGAAAGTGAATGAATACTCCGCTACATTCAGATGAACAAAAGACCAAG 1064  
 Db 1092 CTGAGCAGAAAGTGAATGAATACTCCGCTACATTCAGATGAACAAAAGACCAAG 1151  
 QY 1065 AAACCGCTTCTCTCCCTCCCAATCTGTGATCAGATGATCTGAAACAAAGAAAGCTA 1124  
 Db 1152 AAACCGCTTCTCTCCCTCCCAATCTGTGATCAGATGATCTGAAACAAAGAAAGCTA 1211  
 QY 1125 GCTGTGCGCTTCTCAGCAGGCGGCTGATCAAGTCCACCCAGGCGCAGCAAGTATCCAC 1184  
 Db 1212 GCTGTGCGCTTCTCAGCAGGCGGCTGATCAAGTCCACCCAGGCGCAGCAAGTATCCAC 1271  
 QY 1185 AGGCTTCTTTTAACTGTGCGCAGTCTGAGAAAGTCAAGTAAATCAAGCTGTATAG 1240  
 Db 1272 AGGCTTCTTTTAACTGTGCGCAGTCTGAGAAAGTCAAGTAAATCAAGCTGTATAG 1327

; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED  
 ; FILE OF INVENTION: FROM VARIOUS CDNA LIBRARIES  
 ; FILE REFERENCE: 20411-756  
 ; CURRENT APPLICATION NUMBER: US/09/918,995  
 ; PRIOR FILING DATE: 2001-07-30  
 ; PRIOR APPLICATION NUMBER: US/09/235,076  
 ; NUMBER OF SEQ ID NOS: 38054  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 3342  
 ; LENGTH: 474  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: misc\_feature  
 ; LOCATION: (1)...(474)  
 ; OTHER INFORMATION: n = A,T,C or G  
 ; US-09-918-995-3342

Query Match 21.8%; Score 270.6; DB 10; Length 474;  
 Best Local Similarity 98.6%; Pred. No. 5.3e-69;  
 Matches 273; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 964 ATTCAAAAGAAATCTGAAAAAGAGAGACAAACAAAGAACTGAGACAGAAAGTGGAA 1023  
 Db 54 ACTTTTAAGGAAATCTGAAAAAGAGAGACAAACAAAGAACTGAGACAGAAAGTGGAA 113  
 QY 1024 TGAATACTCCGGCTACCAATTCAATGATGAACAAAGACACAGAAACCGCTTCTCCCTCC 1083  
 Db 114 TGAATACTCCGGCTACCAATTCAATGATGAACAAAGACACAGAAACCGCTTCTCCCTCC 173  
 QY 1084 CAATCTGTGATTCAGTATCTGATCAACAAAGAAACATGAGCTGAGCCCTCTCCACCA 1143  
 Db 174 CAATCTGTGATTCAGTATCTGATCAACAAAGAAACATGAGCTGAGCCCTCTCCACCA 233  
 QY 1144 GCGGCTGATGACACCTGTCACCCAGGCGCAGCAAGTATCCAGAGCTTCTTTAATCTGAC 1203  
 Db 234 GCGGCTGATGACACCTGTCACCCAGGCGCAGCAAGTATCCAGAGCTTCTTTAATCTGAC 293  
 QY 1204 CAGTCTGAGAAAGTCAATATACACCTGTATATAG 1240  
 Db 294 CAGTCTGAGAAAGTCAATATACACCTGTATATAG 330

RESULT 3  
 US-09-864-761-16305  
 ; Sequence 16305, Application US/09864761  
 ; Patent No. US20020048763A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Penn, Sharon G.  
 ; APPLICANT: Rank, David R.  
 ; APPLICANT: Hanzel, David K.  
 ; APPLICANT: Chen, Wensheng  
 ; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR  
 ; FILE REFERENCE: Aecmiga-X-1  
 ; CURRENT APPLICATION NUMBER: US/09/864,761  
 ; PRIOR FILING DATE: 2001-05-23  
 ; PRIOR APPLICATION NUMBER: US 60/180,312  
 ; PRIOR FILING DATE: 2000-02-04  
 ; PRIOR APPLICATION NUMBER: US 60/207,456  
 ; PRIOR FILING DATE: 2000-05-26  
 ; PRIOR APPLICATION NUMBER: US 09/632,366  
 ; PRIOR FILING DATE: 2000-08-03  
 ; PRIOR APPLICATION NUMBER: GB 24263.6  
 ; PRIOR FILING DATE: 2000-10-04  
 ; PRIOR APPLICATION NUMBER: US 60/236,359  
 ; PRIOR FILING DATE: 2000-09-27  
 ; PRIOR APPLICATION NUMBER: PCT/US01/00666  
 ; PRIOR FILING DATE: 2001-01-30  
 ; PRIOR APPLICATION NUMBER: PCT/US01/00667  
 ; PRIOR FILING DATE: 2001-01-30  
 ; PRIOR APPLICATION NUMBER: PCT/US01/00664

```

: LENGTH: 398
: TYPE: DNA
: ORGANISM: Bos taurus
: FEATURE:
: OTHER INFORMATION: Clone ID: 26-LIB34-017-Q1-E1-G9
US-09-983-965-4945

Query Match 11.3%; Score 140.4; DB 9; Length 398;
Best Local Similarity 78.5%; Pred. No. 1,4e-30;
Matches 168; Conservative 0; Mismatches 46; Indels 0; Gaps 0;

QY 113 GTAGTTCCTGGGCTGTGTAATGAAGTCATGAAAGGCCCCAGAAATGCAACAGTCTGAAG 172
Db GCAGCCGTGTGGATCCACAGCTGAAGATCATAGAGGGTCCCAAAGATGTACAGCCCTGAAG 244

QY 173 GGCTCCCAAGCGCTGCGCTCAACTGACCGGCTCTCCAGGGCTGGAAGCTCATCATGTGGGCT 232
Db GGGCTGGAGGCTGCGCTTCAACTGCACCATCTCCGAGGGCTGGAAGGCTGTGTATGTGGGCT 304

QY 233 CTCAGTGACATGTGTGTGTCTAAAGCGTCAGGCCCATGAGGCCATCATCACCATGAGCCGC 292
Db CTGAGAGGACACAGTGGTGTCTGAGAGATGACACACTTAATGAGACATCATCAACAGTGAACGC 364

QY 293 TTCACCTCTCAGAGGTAACGACCAAGGCGGGAAGCT 326
Db TTCACTTCGGCAAGCTACCAAGAGGGGCCGGAAGCT 398

```

```
/ TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
/ TITLE OF INVENTION: FROM VARIOUS CDNA LIBRARIES
/ FILE REFERENCE: 20411-756
/ CURRENT APPLICATION NUMBER: US/09/918,995
/ CURRENT FILING DATE: 2001-07-30
/ PRIOR APPLICATION NUMBER: US/09/235,076
/ PRIOR FILING DATE: 1999-01-20
/ NUMBER OF SEQ ID NOS: 38054
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 5026
/ LENGTH: 404
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-09-918-995-5026
```

```
Query Match
Best Local Similarity 4.3%; Score 53.2; DB 10; Length 404;
Matches 73; Conservative 0; Mismatches 33; Indels 0; Gaps 0;
```

```
QY 28 TCAGTTCTAGGCTGCATTAACAAGCACCATTAAGTGGCTTGAACATGGAAG 87
DB 74 TGAAGTCTGCTGCTGCATTAACAAGCACCATTAAGTGGCTTGAACATGGAAG 133
QY 88 GCATTTCCTACGCTTCCAGAGAGCTGAGTTCGGCTCTGTAAT 133
DB 134 GTATTTCCTACAGTTCAGAGAGCTGAAGTCCAGATGCAAT 179
```

```
RESULT 7
US-10-087-192-988
/ Sequence 988, Application US/10087192
/ Publication No. US20020182586A1
/ GENERAL INFORMATION:
/ APPLICANT: Morris, David W.
/ APPLICANT: Engelhard, Eric K.
/ TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR
/ FILE REFERENCE: 529452000122
/ CURRENT APPLICATION NUMBER: US/10/087,192
/ CURRENT FILING DATE: 2002-03-01
/ PRIOR APPLICATION NUMBER: US 09/747,377
/ PRIOR FILING DATE: 2000-12-22
/ PRIOR APPLICATION NUMBER: US 09/798,586
/ PRIOR FILING DATE: 2001-03-02
/ NUMBER OF SEQ ID NOS: 2053
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 988
/ LENGTH: 203264
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-10-087-192-988
```

```
Query Match
Best Local Similarity 4.3%; Score 53; DB 13; Length 203264;
Matches 80; Conservative 0; Mismatches 45; Indels 0; Gaps 0;
```

```
QY 27 ATCACTTCTAGGCTGCATTAACAAGCACCATTAAGTGGCTTGAACATGGAAG 86
DB 13978 ATAGTTCTGCTGCTGCATTAACAAGCACCATTAAGTGGCTTGAACATGGAAG 140037
QY 87 GCATTTCCTACGCTTCCAGAGAGCTGAGTTCGGCTCTGTAATGAAGTCAAGAG 146
DB 140038 TGTATTTCCTACAGTTCAGAGAGCTGAGTTCGAATGAAGTCAAGTCAAGTCA 140097
QY 147 GCCCC 151
DB 140098 GGGCC 140102
```

```
RESULT 8
US-10-424-599-16675/c
/ Sequence 16675, Application US/10424599
/ Publication No. US20040031072A1
```

```
/ GENERAL INFORMATION:
/ APPLICANT: La Rosa Thomas J
/ APPLICANT: Kovalic David K
/ APPLICANT: Zhou Yihua
/ APPLICANT: Cao Yongwei
/ TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
/ TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
/ FILE REFERENCE: 38-21(53223)B
/ CURRENT APPLICATION NUMBER: US/10/424,599
/ CURRENT FILING DATE: 2003-04-28
/ NUMBER OF SEQ ID NOS: 285684
/ SEQ ID NO 16675
/ LENGTH: 775
/ TYPE: DNA
/ ORGANISM: Glycine max
/ FEATURE:
/ OTHER INFORMATION: Clone ID: PAT_MRT3847_115063C.1
US-10-424-599-16675
```

```
Query Match
Best Local Similarity 4.1%; Score 50.6; DB 17; Length 775;
Matches 65; Conservative 0; Mismatches 24; Indels 0; Gaps 0;
```

```
QY 873 GCTGCTGCTGCTGCGCGCGTGTGTGTGCTGCAACTGCTGCGCGTGTGTCT 932
DB 710 GTTCTGCTGCTGCTGCTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 651
QY 933 GCTGTAGAGAGAGAGAGATTCGTAAT 961
DB 650 GCTGCTGCTGCTGCTGCTGAGCCCTTGTAAAT 622
```

```
RESULT 9
US-10-027-632-43431
/ Sequence 43431, Application US/10027632
/ Publication No. US20020198371A1
/ GENERAL INFORMATION:
/ APPLICANT: Wang, David G.
/ TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
/ FILE REFERENCE: 108827,129
/ CURRENT APPLICATION NUMBER: US/10/027,632
/ CURRENT FILING DATE: 2002-04-30
/ PRIOR APPLICATION NUMBER: US 60/218,006
/ PRIOR FILING DATE: 2000-07-12
/ PRIOR APPLICATION NUMBER: US 60/198,676
/ PRIOR FILING DATE: 2000-04-20
/ PRIOR APPLICATION NUMBER: US 60/193,483
/ PRIOR FILING DATE: 2000-03-29
/ PRIOR APPLICATION NUMBER: US 60/185,218
/ PRIOR FILING DATE: 2000-02-24
/ PRIOR APPLICATION NUMBER: US 60/167,363
/ PRIOR FILING DATE: 1999-11-23
/ PRIOR APPLICATION NUMBER: US 60/156,358
/ PRIOR FILING DATE: 1999-09-28
/ PRIOR APPLICATION NUMBER: US 60/146,002
/ PRIOR FILING DATE: 1999-08-09
/ NUMBER OF SEQ ID NOS: 325720
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 43431
/ LENGTH: 609
/ TYPE: DNA
/ ORGANISM: Human
US-10-027-632-43431
```

```
Query Match
Best Local Similarity 4.1%; Score 50.4; DB 13; Length 609;
Matches 80; Conservative 0; Mismatches 31; Indels 1; Gaps 1;
```

```
QY 23 GTGATCAGTTTC-TAGGCTGCATTAACAAGCACCATTAAGTGGCTTGAACAT 81
DB 111 GTGATCAGTTTCCTGCGCTGCGTGAACAAATTAGACAACTGTGCTTAAACAAT 170
```



```
; Publication No. US20020198371A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; PRIOR FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 201953
; LENGTH: 650
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-201953

Query Match
Best Local Similarity 4.0%; Score 50.2; DB 13; Length 650;
Pred. No. 0.00086;
Matches 97; Conservative 0; Mismatches 78; Indels 0; Gaps 0;

QY 38 AGGCTCCATAACAAGCAGCATACCTGCTGCTTAAGACATGAAAGCATTGCTC 97
    |||||
DB 448 AGGCTACCATTAACAATAATCCATAGCTGGTGGCTTAAAGACAGAAATTTATTCTC 389
QY 98 ACGTTCCAGAAAGCTGTAGTTCGTGGTCTGTTAAATGATCATGAAAGCCCCAGAAAT 157
    |||||
DB 388 ACAGTCCAGAGGCTGGAAGTCCAGATCAGGGTCCAGCATGTCAGGGTCTGTGTAAC 329
QY 158 GCAACAGTCTGAAAGGCTCCAGGCTGCTTCAACTGCACCGTCTCCAGGGCT 212
    |||||
DB 328 ACTTATTCTGCTGCTTCAGACATTCATTCTCTCATGTGCTCACCAGGCTT 274

RESULT 14
US-10-027-632-201953/c
; Sequence 201953, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; PRIOR FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; NUMBER OF SEQ ID NOS: 325720
```

```
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 201953
; LENGTH: 650
; TYPE: DNA
; ORGANISM: Human
US-10-027-632-201953

Query Match
Best Local Similarity 4.0%; Score 50.2; DB 17; Length 650;
Pred. No. 0.00086;
Matches 97; Conservative 0; Mismatches 78; Indels 0; Gaps 0;

QY 38 AGGCTCCATAACAAGCAGCATACCTGCTGCTTAAGACATGAAAGCATTGCTC 97
    |||||
DB 448 AGGCTACCATTAACAATAATCCATAGCTGGTGGCTTAAAGACAGAAATTTATTCTC 389
QY 98 ACGTTCCAGAAAGCTGTAGTTCGTGGTCTGTTAAATGATCATGAAAGCCCCAGAAAT 157
    |||||
DB 388 ACAGTCCAGAGGCTGGAAGTCCAGATCAGGGTCCAGCATGTCAGGGTCTGTGTAAC 329
QY 158 GCAACAGTCTGAAAGGCTCCAGGCTGCTTCAACTGCACCGTCTCCAGGGCT 212
    |||||
DB 328 ACTTATTCTGCTGCTTCAGACATTCATTCTCTCATGTGCTCACCAGGCTT 274

RESULT 15
US-10-741-601-5697/c
; Sequence 5697, Application US/10741601
; Publication No. US20040166519A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; FILE OF INVENTION: STENOSIS, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01500
; CURRENT APPLICATION NUMBER: US/10/741,601
; NUMBER OF SEQ ID NOS: 26415
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5697
; LENGTH: 68123
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-741-601-5697

Query Match
Best Local Similarity 4.0%; Score 50.2; DB 18; Length 68123;
Pred. No. 0.013;
Matches 75; Conservative 0; Mismatches 23; Indels 1; Gaps 1;

QY 21 GTGTGATCAGTTCTTCTAGGCTGCTTAACAAGCAGCATTAACCT-GGTGGCTTAGACA 79
    |||||
DB 970 GTTGCATTAGTTTCTCGGGCTGTCTAATCAAAATTAACAAGCTGGTGGCTTAACA 911
QY 80 ATGAAAGCATTTGCTCAGGCTTCCAGAACTGTAGT 118
    |||||
DB 910 ACAGAAATGATTTCTTGAAGTTTGAAGGCTAAAGGT 872
```

Search completed: February 25, 2005, 06:16:06  
Job time : 875.067 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

## OM protein - protein search, using sw model

Run on: February 22, 2005, 18:19:05 ; Search time 19.0659 Seconds  
(without alignment)  
1511.316 Million cell updates/sec

Title: US-09-729-264-6  
Perfect score: 2077  
Sequence: 1 MERHLLTPPEAVGSGSGNEV.....HPQASFNLAPEKVSNTTVV 386

Scoring table:  
BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA: \*  
1: /cgn2\_6/prodata/1/1aa/5B\_COMB.pep:\*  
2: /cgn2\_6/prodata/1/1aa/5A\_COMB.pep:\*  
3: /cgn2\_6/prodata/1/1aa/6A\_COMB.pep:\*  
4: /cgn2\_6/prodata/1/1aa/6B\_COMB.pep:\*  
5: /cgn2\_6/prodata/1/1aa/6CTUS\_COMB.pep:\*  
6: /cgn2\_6/prodata/1/1aa/Backfile1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	151	7.3	404	US-09-638-649-3	Sequence 3, App1
2	151	7.3	404	US-09-949-016-11025	Sequence 11025, A
3	151	7.3	404	US-09-638-648-3	Sequence 3, App1
4	145.5	7.0	405	US-08-755-235-4	Sequence 4, App1
5	128.5	6.2	1445	US-08-977-767-3	Sequence 3, App1
6	128	6.2	1447	US-09-041-886-25	Sequence 25, App1
7	128	6.2	1447	PCT-US94-05277-2	Sequence 2, App1
8	128	6.2	1953	US-09-917-254-92	Sequence 92, App1
9	127.5	6.1	869	US-08-374-834-15	Sequence 16, App1
10	127.5	6.1	869	US-08-644-271-29	Sequence 29, App1
11	127.5	6.1	869	US-09-077-955-33	Sequence 33, App1
12	127	6.1	332	US-09-062-365-1	Sequence 1, App1
13	125.5	6.0	869	US-09-715-249-8	Sequence 8, App1
14	125	6.0	1070	US-09-651-403-3	Sequence 3, App1
15	124.5	6.0	340	US-09-651-200-2	Sequence 2, App1
16	124.5	6.0	441	US-09-651-200-4	Sequence 4, App1
17	123.5	5.9	534	US-09-651-200-6	Sequence 4, App1
18	123.5	5.9	534	US-09-651-200-24	Sequence 24, App1
19	123	5.9	313	US-09-700-397-4	Sequence 4, App1
20	123	5.9	344	US-09-700-397-3	Sequence 3, App1
21	122.5	5.9	455	US-09-949-016-6949	Sequence 6949, Ap
22	122.5	5.9	455	US-09-949-016-11026	Sequence 11026, A
23	122.5	5.9	4391	US-10-006-011A-2	Sequence 2, App1
24	122	5.9	318	US-08-633-148-2	Sequence 1, App1
25	122	5.9	340	US-08-633-148-2	Sequence 2, App1
26	120	5.8	83	US-09-270-767-37272	Sequence 37272, A
27	120	5.8	83	US-09-270-767-52489	Sequence 52489, A

28	114.5	5.5	1461	US-09-976-594-531	Sequence 531, App
29	114	5.5	868	US-08-374-834-1	Sequence 1, App1
30	114	5.5	868	US-08-644-271-1	Sequence 1, App1
31	114	5.5	868	US-09-077-955-1	Sequence 1, App1
32	114	5.5	1395	US-09-540-245A-15	Sequence 15, App1
33	113.5	5.5	416	US-09-638-649-1	Sequence 1, App1
34	113.5	5.5	416	US-08-755-235-2	Sequence 2, App1
35	113.5	5.5	416	US-09-638-648-1	Sequence 1, App1
36	113	5.4	689	US-09-499-964-1	Sequence 1, App1
37	111.5	5.4	316	US-09-910-174B-24	Sequence 24, App1
38	111.5	5.4	316	US-09-620-461-24	Sequence 24, App1
39	111	5.3	365	US-08-979-424-3	Sequence 3, App1
40	111	5.3	365	US-09-272-496-2	Sequence 2, App1
41	111	5.3	365	US-09-949-016-6064	Sequence 6064, Ap
42	111	5.3	383	US-09-949-016-11050	Sequence 11050, A
43	111	5.3	706	US-09-086-436-30	Sequence 30, App1
44	110	5.3	706	US-09-949-016-11394	Sequence 11394, A
45	109.5	5.3	325	US-09-651-200-20	Sequence 20, App1

## ALIGNMENTS

RESULT 1  
US-09-638-649-3  
Sequence 3, Application US/09638649  
Patent No. 6563015  
GENERAL INFORMATION:  
APPLICANT: Stern, David M.  
APPLICANT: Schmidt, Ann Marie  
APPLICANT: Van, Shi Du  
TITLE OF INVENTION: TRANSGENIC MICE OVER-EXPRESSING RECEPTOR FOR ADVANCED  
TITLE OF INVENTION: GLYCATION ENDPRODUCT (PAGE) AND MUTANT APP IN BRAIN AND  
FILE REFERENCE: 0575/62175  
CURRENT APPLICATION NUMBER: US/09/638,649  
CURRENT FILING DATE: 2000-08-14  
NUMBER OF SEQ ID NOS: 10  
SOFTWARE: Patentin Ver. 2.1  
SEQ ID NO 3  
LENGTH: 404  
TYPE: PRT  
ORGANISM: Human  
US-09-638-649-3

Query Match 7.3%; Score 151; DB 4; Length 404;

Best Local Similarity 23.3%; Pred. No. 4, 1e-05;  
Matches 90; Conservative 38; Mismatches 112; Indels 146; Gaps 19;

9 PEAVSGSGNEVIEGPNATVTKGSQARPNCTVSGQ---WKLIMALSDMVVLVSRPMP 65  
124 PIVIVSAS---ELTAGVPN-----KVGTCVSESGYPAGTSLWHLDG-----KR 163  
66 ITTNDPFTS-----ORYDGGNFT--SEMIHNVPSDSGNIR-----CSLQNSRLHGSAY 114  
164 LVPEKGVSVKQOTRRHPTGLFTLOSELN---VTPARGDPRPTSCSPSPRLPHRRAL 220  
115 LTVQVWGLFIP---SVNLVVAENEP-----CEVTCLPSHMTRLPDISWE 156  
221 RFAPIQPRVMEVPLEEVGLV---EPGGAVALPAGGTVLTLCEVPAQPS-----PQIHMM 272  
157 LGLVSHSSYRVVPEPSIDQASVIALTPQSNGLITCYATWKSLSKARASATYNLTVIRC 216  
273 KD-----GVPLPLPPSPVLLIPEIGPOQGYTSCVATHSHGQPSRAVSIIE- 322  
217 PODTGGGINIPGVLSLPLGFSLLPTWGVKVGGLAGTMLLT-----PTCTLTIRCCCC 269  
323 PEEEG-----PRAGSVGSGGLTALALGIGLGTALLIVILM 363  
270 RRRCCGNCRCRCCRCRKRGRFRIQPKSKSEKT--NKETETESGNGNSGVNSDEQKT 327  
364 QRR-----QRRGERKAPENQEEDEERABLN----- 389

QY 328 TETASLPKSCSSDPEQNSCGPP 353  
 Db 390 -----QSEEPAGESSSTGCP 404

RESULT 2  
 US-09-949-016-11025  
 ; Sequence 11025, Application US/09949016  
 ; Patent No. 6812339  
 ; GENERAL INFORMATION:  
 ; APPLICANT: VENTER, J. Craig et al.  
 ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
 ; FILE REFERENCE: C1001307  
 ; CURRENT FILING DATE: 2000-04-14  
 ; PRIOR FILING DATE: 2000-04-14  
 ; PRIOR APPLICATION NUMBER: 60/241,755  
 ; PRIOR FILING DATE: 2000-10-20  
 ; PRIOR APPLICATION NUMBER: 60/237,768  
 ; PRIOR FILING DATE: 2000-10-03  
 ; PRIOR APPLICATION NUMBER: 60/231,498  
 ; NUMBER OF SEQ ID NOS: 207012  
 ; SOFTWARE: FASTSEQ for Windows Version 4.0  
 ; SEQ ID NO 11025  
 ; LENGTH: 404  
 ; TYPE: PRT  
 ; ORGANISM: Human  
 US-09-949-016-11025

Query Match  
 Best Local Similarity 23.3%; Score 151; DB 4; Length 404;  
 Matches 90; Conservative 38; Mismatches 112; Indels 146; Gaps 19;

QY 9 PEAVSGSGNEVIEGPONATVTKGSAQRFNCTYSQ---WKLIMWALSDMWVLSVRPMEP 65  
 Db 124 PEIVDSAS--ELTAGVPR-----KVGTCVSEGSYPAGTISWHLDG-----KP 163  
 QY 66 IITNDRFTS-----QRYDQGNFT--SEMIHNVEPSDSGNIR-----CSLQNSRLHGSAY 114  
 Db 164 LVPENEKGVSVKEQTRRHPEFTGLFTLQSELM---VTPARGDDPRPTSCSFGSLPRHRAL 220  
 QY 115 LTVQVWGBELFIP---SVNLVVAENEP-----CEVTCLPSSHMTPLPDISWE 156  
 Db 221 RTAIQPRWEPVPLEEVOLV--EPBGAVAPGGTITLTCVPAQPS-----PQIHMM 272  
 QY 157 LGLIVSHSSYFVPEPSDLOSASIIALTPOSGNTLTCVATWKSUKARKSATVNLTVIRC 216  
 Db 273 KD-----GVPLPPLPSPVLLIPEIGPDQGTYSQVATHSHHPQESRAVSISIIIE- 322  
 QY 217 PODTGGGINIPGVLSLSLPGSLPTWKGVLGLAGTMLT-----PTCTLTTRCCCC 269  
 Db 323 PGEEG-----PTAGSVGSGIGTIALALGILGIGTALLIGVILW 363  
 QY 270 RRRCCGNCNCCRCPCCRKRKGFRIQFOKSEKERT--NKETETESGNENSGVNSDEQKT 327  
 Db 364 QRR-----QRGERKAPENQEBEERAEIN----- 389  
 QY 328 TETASLPKSCSSDPEQNSCGPP 353  
 Db 390 -----QSEEPAGESSSTGCP 404

RESULT 3  
 US-09-638-648-3  
 ; Sequence 3, Application US/09638648  
 ; Patent No. 6825164  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Stern, David M.  
 ; APPLICANT: Schmidt, Ann Marie  
 ; APPLICANT: Yan, Shi Du  
 ; APPLICANT: Zlokovic, Berislav  
 ; TITLE OF INVENTION: A METHOD TO INCREASE CEREBRAL BLOOD FLOW IN AMYLOID

; TITLE OF INVENTION: ANGIOPATHY  
 ; FILE REFERENCE: 0575/62097  
 ; CURRENT APPLICATION NUMBER: US/09/638,648  
 ; CURRENT FILING DATE: 2000-08-14  
 ; NUMBER OF SEQ ID NOS: 6  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 3  
 ; LENGTH: 404  
 ; TYPE: PRT  
 ; ORGANISM: Human  
 US-09-638-648-3

Query Match  
 Best Local Similarity 23.3%; Score 151; DB 4; Length 404;  
 Matches 90; Conservative 38; Mismatches 112; Indels 146; Gaps 19;

QY 9 PEAVSGSGNEVIEGPONATVTKGSAQRFNCTYSQ---WKLIMWALSDMWVLSVRPMEP 65  
 Db 124 PEIVDSAS--ELTAGVPR-----KVGTCVSEGSYPAGTISWHLDG-----KP 163  
 QY 66 IITNDRFTS-----QRYDQGNFT--SEMIHNVEPSDSGNIR-----CSLQNSRLHGSAY 114  
 Db 164 LVPENEKGVSVKEQTRRHPEFTGLFTLQSELM---VTPARGDDPRPTSCSFGSLPRHRAL 220  
 QY 115 LTVQVWGBELFIP---SVNLVVAENEP-----CEVTCLPSSHMTPLPDISWE 156  
 Db 221 RTAIQPRWEPVPLEEVOLV--EPBGAVAPGGTITLTCVPAQPS-----PQIHMM 272  
 QY 157 LGLIVSHSSYFVPEPSDLOSASIIALTPOSGNTLTCVATWKSUKARKSATVNLTVIRC 216  
 Db 273 KD-----GVPLPPLPSPVLLIPEIGPDQGTYSQVATHSHHPQESRAVSISIIIE- 322  
 QY 217 PODTGGGINIPGVLSLSLPGSLPTWKGVLGLAGTMLT-----PTCTLTTRCCCC 269  
 Db 323 PGEEG-----PTAGSVGSGIGTIALALGILGIGTALLIGVILW 363  
 QY 270 RRRCCGNCNCCRCPCCRKRKGFRIQFOKSEKERT--NKETETESGNENSGVNSDEQKT 327  
 Db 364 QRR-----QRGERKAPENQEBEERAEIN----- 389  
 QY 328 TETASLPKSCSSDPEQNSCGPP 353  
 Db 390 -----QSEEPAGESSSTGCP 404

RESULT 4  
 US-08-755-235-4  
 ; Sequence 4, Application US/08755235  
 ; Patent No. 6790443  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Stern, David M.  
 ; APPLICANT: Schmidt, Ann Marie  
 ; APPLICANT: Wu, Jun  
 ; TITLE OF INVENTION: METHOD FOR TREATING SYMPTOMS OF DIABETES  
 ; FILE REFERENCE: 0575/50159  
 ; CURRENT APPLICATION NUMBER: US/08/755,235  
 ; CURRENT FILING DATE: 1996-11-22  
 ; NUMBER OF SEQ ID NOS: 4  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 4  
 ; LENGTH: 405  
 ; TYPE: PRT  
 ; ORGANISM: Human  
 US-08-755-235-4

Query Match  
 Best Local Similarity 7.0%; Score 145.5; DB 4; Length 405;  
 Matches 91; Conservative 36; Mismatches 111; Indels 147; Gaps 20;  
 QY 9 PEAVSGSGNEVIEGPONATVTKGSAQRFNCTYSQ---WKLIMWALSDMWVLSVRPMEP 65  
 Db 124 PEIVDSAS--ELTAGVPR-----KVGTCVSEGSYPAGTISWHLDG-----KP 163



QY 66 ITTNRFTS-----QRYDOGGNFT--SEMIINNEPSSDGNIR-----CSLONSRLHGSAV 114  
DB 164 IVPNKGVSVKQOTRRHPETGLFTLOSELM---VTPARGDPRPTFS CSPSPGLPRHRL 220  
QY 115 LTVQVMGELFLP-----SVNLVVAENP-----CEVCTLPBHMTRLPDISP 156  
DB 221 RFAIPQPRWEPVPLAEVLLV---EPGGAVALPGGTTLTCEVPAQPS-----POIHMM 272  
QY 157 LGLVSHSSYFVPEPSPDLQSAVSILALTPQNGTLTVATWKSILKARKS-ATVNLTVIR 215  
DB 273 KD-----GVPLPLPPSPVLILPEIGPODGTYS CVATHSSHQPGBRAVVISISILE 323  
QY 216 CPQDTGGGINIRGVUSSLSLPSLPTWKNGLGLAGTMLT-----PTCTLTIRCCC 268  
DB 324 -PGEBG-----PTAGSVGSGGLTALALGLIGLGTALLIGVIL 363  
QY 269 CRRRCGCCGCCRCRCCRRKRGFRLOPKSEKEKT--NKELETESGNGNSGYNSDEQK 326  
DB 364 WQRR-----ORGEERAPNQBEEERBALN----- 390  
QY 327 TTERASLPKSCSSDPEQNSCCGP 353  
DB 391 -----QSEPEAGESSSTGP 405

RESULT 5  
US-08-977-767-3  
Sequence 3, Application US/08977767  
Patent No. 5972684  
GENERAL INFORMATION:  
APPLICANT: Bandman, Olga  
APPLICANT: Yue, Henry  
APPLICANT: Greenwald, Sara  
APPLICANT: Corley, Neil C.  
TITLE OF INVENTION: CARBONIC ANHYDRASE VIII  
NUMBER OF SEQUENCES: 3  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Inocyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/977,767  
FILING DATE: Herewith  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J.  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0423 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650-855-0555  
TELEFAX: 650-845-4166  
TELEX:  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1345 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: GenBank  
CLONE: 1532042  
US-08-977-767-3

Query Match 6.2%; Score 128.5; DB 2; Length 1345;  
Best Local Similarity 33.0%; Pred. No. 0.022;  
Matches 37; Conservative 1; Mismatches 41; Indels 33; Gaps 5;

QY 190 GTLTGATWKSILKARKSATVNLTVIRCPQDITGGI-----NIRGVUSSLSLPSLPTWPK 245  
DB 414 GTCTCTGT-----GC-CGTGGAGAGCTCGAGCCCGGTGATGTGA 455  
QY 246 VGLAGLWTLT-PTCTLTIRCCCRRCRCCGCCRC-----CFCC 286  
DB 456 CGTGAAGAGGCTCTATGACCCCTCTGCCCCCTCTGAGACTGACACC 507

RESULT 6  
US-09-041-886-25  
Sequence 25, Application US/09041886  
Patent No. 6235872  
GENERAL INFORMATION:  
APPLICANT: Bredeeen, Dale E.  
APPLICANT: Rabizadeh, Sharroz  
TITLE OF INVENTION: Proapoptotic Peptides, Dependence  
TITLE OF INVENTION: Polypeptides and Methods of Use  
NUMBER OF SEQUENCES: 72  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Campbell & Flores LLP  
STREET: 4370 La Jolla Village Drive, Suite 700  
CITY: San Diego  
STATE: California  
COUNTRY: United States  
ZIP: 92122  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC Compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/041,886  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Campbell, Cathryn A.  
REGISTRATION NUMBER: 31,815  
REFERENCE/DOCKET NUMBER: P-LJ 2626  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (619) 535-9001  
TELEFAX: (619) 535-8949  
INFORMATION FOR SEQ ID NO: 25:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1447 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-041-886-25

Query Match 6.2%; Score 128; DB 3; Length 1447;  
Best Local Similarity 24.8%; Pred. No. 0.027;  
Matches 60; Conservative 33; Mismatches 99; Indels 50; Gaps 10;

QY 14 SSGNEV-----IEGPNATVLKGSQAFNCTVSGW--KLIMMALISM 55  
DB 220 SRTGNEAEVRLISDGLHRQLYFLORPSNVVAIEGDAVLECVS-GYPPSPFTWLKGE 278  
QY 56 VVLAVRPEPIITNDRFTSORYDOGGNFTSEMIINNEPSSDGNIR--SLONSRLHGSA 113  
DB 279 VI-----QLRSKVSLLGG--SNLLISNVTDDSGMTTCVVTYKNENISASA 323  
QY 114 YLTVOVMGELFLPSTVNLVVAENPCEVCTLPBHMTRLPDISV-ELGLVSHSSYFVPEP 172  
DB 324 ELTVLVPWFNLHPNLVAYESMDIEFECTVS-GKVPVTVMKMGDVIIPSDYFQIVGG 382  
QY 173 SDLOSAVSIALTPQNGTLTVATWKSILKARKSATVNLTVIRCPQDITGGGINIRGVUSS 232

Db 363 SNLR-----ILGVVKSDEGFYOCVAENAGNAQTSALIVPKALPSSS-----VLPS 430  
QY 233 LP 234  
Db 431 AP 432

## RESULT 7

PCT-US94-05277-2  
Sequence 2, Application PC/TUS9405277  
GENERAL INFORMATION:  
APPLICANT: Bruskin, Arthur  
APPLICANT: Jarosz, David E.  
APPLICANT: Johnson, Karen  
APPLICANT: Kinler, Kenneth W.  
APPLICANT: Vogelstein, Bert  
APPLICANT: Zabecky, James R.  
TITLE OF INVENTION: Antibodies Specific for DCC Gene Product  
NUMBER OF SEQUENCES: 2  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Banner, Birch, McKie & Beckett  
STREET: 1001 G Street, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20001  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US94/05277  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Kagan, Sarah A.  
REGISTRATION NUMBER: 32,141  
REFERENCE/DOCKET NUMBER: 01107.42709  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202.508.9100  
TELEFAX: 202.508.9299  
TELEX: 197430 BMB UT  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1447 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
PCT-US94-05277-2

Query Match 6.2%; Score 128; DB 5; Length 1447;  
Best Local Similarity 24.8%; Pred. No. 0.027;

Matches 60; Conservative 33; Mismatches 99; Indels 50; Gaps 10;

QY 14 SSGSNEV-----IEGPNATVLKSGQARFNCTVSQGN--KLIMWALSDM 55  
Db 220 SRTGNEAEVRLIDSGRLQVLPORPSNVVAIEGKDAVLECCVS-GYPPPSFTMLGEE 278  
QY 56 VLSVPRMEPIITNDRFTSORDOGNTSEMIHNHVPSPDSGNIRC--SLQNSRLNGSA 113  
Db 279 VI-----QLASKKTSILIG--SNLLISNVTDDSGMYTCVYTKNENISASA 323  
QY 114 YLTVOVMGEFLPSVNLVVAENEPCEVTCPLSHWTRLPDISM-ELGLVSHSYFVPEP 172  
Db 324 ELTVLVPPWFLNHSNLYAVESMDIEFECTVS-GKPVPTVMKNGGVVLPISDFQIVGG 382  
QY 173 SDLSAVSILALTQSNCTLCVATWKSUKARKSATVNLTVIRCPDGTGGGINIPGLSS 232  
Db 383 SNLR---ILGVVKSDEGFYOCVAENAGNAQTSALIVPKALPSSS-----VLPS 430  
QY 233 LP 234

Db 431 AP 432

## RESULT 8

US-09-917-254-92  
Sequence 92, Application US/09917254  
Patent No. 6703204  
GENERAL INFORMATION:  
APPLICANT: Muller, George  
APPLICANT: Baak, Jan  
TITLE OF INVENTION: Prognostic Classification of Breast Cancer  
FILE REFERENCE: B0801/7224(JRV)  
CURRENT APPLICATION NUMBER: US/09/917,254  
CURRENT FILING DATE: 2001-07-27  
PRIOR APPLICATION NUMBER: US 60/222,093  
PRIOR FILING DATE: 2000-07-28  
NUMBER OF SEQ ID NOS: 102  
SOFTWARE: Patent In version 3.0  
SEQ ID NO 92  
LENGTH: 1953  
TYPE: PRT  
ORGANISM: Homo Sapiens  
US-09-917-254-92

Query Match 6.2%; Score 128; DB 4; Length 1953;  
Best Local Similarity 20.3%; Pred. No. 0.041;  
Matches 86; Conservative 58; Mismatches 149; Indels 130; Gaps 19;

QY 24 PGNATVLKSGQARFNCTVSQGN--KLIMWALSDMVLVSRPMEPIITNDRFTSORVDGG 81  
Db 78 PRNLCTKEGATAKKEGRV-RGYPPQVYTW-----NCGPITSGRFL--LDCGI 124  
QY 82 NPTSEMIHNHVPSPDSGNIRCSLONSRLHGSAYLTVOV-----MGEL 123  
Db 125 RGTFSLVTHAVHEBDRKTYCEATNG--SGARQVTELTVEGSPAKQGPVVSKTLDGR 182  
QY 124 FI-----PSV-----NIVVAEN--PCEVTCLPSHWTRLPDISWELG- 158  
Db 183 FSASAVETRPSIWGECPKPKATKGRVVVKEGQMGFPSCKITRPFQ-----PQVTWLNKN 237  
QY 159 LVVSHSYFVPEPSPDQSAVSILALTQSNCTLCVATWKSUKARKSA-----TYN 210  
Db 238 VPLQPSARVSVSEKNGQ-VLEIHGVNQDDVGYTCLVNGSGKASMSABLSIQGLDSAN 296  
QY 211 LTVIRCFQDTGGGI-----NIPGVLSLPSLGFSLPTWGVGLAGTMLTPCTLTIR 265  
Db 297 RSFVRETKATNSDVRKEVTNIVISKESKLDL----- 327  
QY 266 CCCRRRCGCGNCCCPCCRRKRGFRIOFOKKSREKTKNETESGNN--SGVNS 322  
Db 328 -----EAAASKNCSFPORGSPPMANSGOPP-RSKLSCKDSRTPAPQTP 375  
QY 323 DEQKTTETASLPKSCSSDPPEQRNSSCGPPHORADQ-----PPRPSHPQASFNLASPE 378  
Db 376 VLQKTSSTILQAAVQ---PEPRAGLGVLASGSEGRKRPAPRRATPTPQPGIGSD 432  
QY 379 KVS 381  
Db 433 VVS 435

## RESULT 9

US-08-374-834-16  
Sequence 16, Application US/08374834  
Patent No. 5656473  
GENERAL INFORMATION:  
APPLICANT: Valenzuela, et al.  
TITLE OF INVENTION: NOVEL TYROSINE KINASE RECEPTOR  
NUMBER OF SEQUENCES: 17  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Regeneron Pharmaceuticals, Inc.  
STREET: 777 Old Saw Mill River Road  
CITY: Tarrytown

```

STATE: New York
COUNTRY: USA
ZIP: 10591
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/374,834
FILING DATE: 19-JAN-1995
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/095,658
FILING DATE: 21-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: Cobert, Robert J.
REGISTRATION NUMBER: 36,108
REFERENCE/DOCKET NUMBER: REG 190A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (914) 345-7400
TELEFAX: (914) 345-7721
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 869 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-374-834-16

```

```

Query Match      6.1%; Score 127.5; DB 1; Length 869;
Best Local Similarity 20.9%; Pred. No. 0.015;
Matches 86; Conservative 51; Mismatches 176; Indels 99; Gaps 19;

19 EVIEGPNATVTLKSGARFNCCTVSGQWK-LIMMALSMDVVLVRPMEPIITDRFTRSY 77
122 KITRPINVKIIEGLKAVLPCTTMGNPKPSVSMIKD-----SPLRENSRIAVLE 171
78 DOGNETSEMIHNVPEPSDSGNIRCSLONSRLHGSAY-LTVQVMBELFIPSVNLVAENE 136
172 -----SGSLRIHNVQKEDAGQYRCVAKNSL--GTAVSKVVKLEVEVPARILRAPSHNV 223
137 P-----CEVTCLPSHMTLPDISW-ELGLVSHSSYTFVPEPDLQSAVSIALLTQ 187
224 TFGSFVTLHCTATGIP-----VPTITWINGNAVSIGSVKQKVIDSRQLQFTTKP- 277
188 SNGTLTCVAT-----WKSLEKRSATVNLTVIRCPDPTGG-----INIPGVLSLP 234
278 --GLYTCLINTNKGKGFSTKKAATISLAWSKPQKDNKGCAQYRGEVNCNAVLADALV 335
235 SLGFSL-----PTWGVGLAGTMLTPCTLTTRCCRRRCGCN----- 277
336 PLNTSVADDEBAQELLVHTAMNEL-----KVSVPCRPABALLCNHIFQCSFGVVP 388
278 -----CCCRCC-----FCRRKRGRIQFOKSEKKEKTKETETSGNENSGVNSPEQKT 327
389 TPPICREYCLAVKELFCAKE-----WLWMEKTHGLYSEMHLSVPECSKLPMSHMDP 444
328 TETASLPKSCSSDEQRNSSCGPHQRADRP-----PRPASHPOASFNLA 375
445 TACARLP-----HLDYKKNLKTFFP--MTSSKPSVDIPNLSSSSSSSFSVS 489

```

```

RESULT 10
US-08-644-271-29
; Sequence 29, Application US/08644271
; Patent No. 5814478
; GENERAL INFORMATION:
; APPLICANT: Valenzuela, et al.
; TITLE OF INVENTION: NOVEL TYROSINE KINASE RECEPTORS
; TITLE OF INVENTION: AND LIGANDS
; NUMBER OF SEQUENCES: 32

```

```

CORRESPONDENCE ADDRESS:
ADDRESSEE: Regeneron Pharmaceuticals, Inc.
STREET: 777 Old Saw Mill Road
CITY: Tarrytown
STATE: NY
COUNTRY: USA
ZIP: 10591
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/644,271
FILING DATE: 10-MAY-1996
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: USN 60/008,657
FILING DATE: 15-DEC-1995
ATTORNEY/AGENT INFORMATION:
NAME: Cobert, Robert J.
REGISTRATION NUMBER: 36,108
REFERENCE/DOCKET NUMBER: REG 195A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 914-345-7400
TELEFAX: 914-345-7721
TELEX:
INFORMATION FOR SEQ ID NO: 29:
SEQUENCE CHARACTERISTICS:
LENGTH: 869 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-644-271-29

```

```

Query Match      6.1%; Score 127.5; DB 2; Length 869;
Best Local Similarity 20.9%; Pred. No. 0.015;
Matches 86; Conservative 51; Mismatches 176; Indels 99; Gaps 19;

19 EVIEGPNATVTLKSGARFNCCTVSGQWK-LIMMALSMDVVLVRPMEPIITDRFTRSY 77
122 KITRPINVKIIEGLKAVLPCTTMGNPKPSVSMIKD-----SPLRENSRIAVLE 171
78 DOGNETSEMIHNVPEPSDSGNIRCSLONSRLHGSAY-LTVQVMBELFIPSVNLVAENE 136
172 -----SGSLRIHNVQKEDAGQYRCVAKNSL--GTAVSKVVKLEVEVPARILRAPSHNV 223
137 P-----CEVTCLPSHMTLPDISW-ELGLVSHSSYTFVPEPDLQSAVSIALLTQ 187
224 TFGSFVTLHCTATGIP-----VPTITWINGNAVSIGSVKQKVIDSRQLQFTTKP- 277
188 SNGTLTCVAT-----WKSLEKRSATVNLTVIRCPDPTGG-----INIPGVLSLP 234
278 --GLYTCLINTNKGKGFSTKKAATISLAWSKPQKDNKGCAQYRGEVNCNAVLADALV 335
235 SLGFSL-----PTWGVGLAGTMLTPCTLTTRCCRRRCGCN----- 277
336 PLNTSVADDEBAQELLVHTAMNEL-----KVSVPCRPABALLCNHIFQCSFGVVP 388
278 -----CCCRCC-----FCRRKRGRIQFOKSEKKEKTKETETSGNENSGVNSPEQKT 327
389 TPPICREYCLAVKELFCAKE-----WLWMEKTHGLYSEMHLSVPECSKLPMSHMDP 444
328 TETASLPKSCSSDEQRNSSCGPHQRADRP-----PRPASHPOASFNLA 375
445 TACARLP-----HLDYKKNLKTFFP--MTSSKPSVDIPNLSSSSSSSFSVS 489

```

```

RESULT 11
US-09-077-955-33
; Sequence 33, Application US/09077955A
; Patent No. 6413740

```

Query Match	6.18;	Score 127;	DB 4;	Length 332;
Best Local Similarity	25.04;	Pred. No. 0.0043;		
Matches 70;	Conservative 31;	Mismatches 87;	Indels 92;	Gaps 15;
QY	9	PEAVSGSGNEVIEGPONATVLKSGQAFCNCTVSQG---	WTLIMVALSDMWLVLSVRMEP	65
Db	102	PETVVDAS--ELTAGVPN-----	-KVCITVSGSVPACTLSMHLG-----	Kp 141
QY	66	IITNDEFTS-----	ORYDQGNET--SEMITHVEPSQNGIR--	CSIQNSRLHGSAY 114
Db	142	LVENEGGVAVKEQOTRRHPETGLFTLQSELM--	VTPRAGDPRRTFECSCSPGLPHRRAL	198
QY	115	LTVQVNGELFIP-----	SNLVVAENEP-----	CRVTLCPHSMTPLPDLSWE 156
Db	199	RTAFPIQPRWEEVPELEVQVLV--	EPBGCAVARGGVITLCEVPAQPS--	FOIHMM 250
QY	157	LGILVSHSSYVYVPEPSDLQSAVISLALTPQNGTLL	TCVATKSLKARSGATVNLTVIRC	216

```

Query March          Best Local Similarity      6.0%; Score 125.5; DB 4; Length 869;
US-09-715-249-8    US-09-715-249-8
Db                  301 PGEEG-----PTAGSYGGSGGLGTLAL 321
RESULT 13
US-09-715-249-8
Patent No. 6,790,614
GENERAL INFORMATION:
APPLICANT: NOVARTIS AG
APPLICANT: VERES, GABOR
TITLE OF INVENTION: selectable cell surface marker genes
FILE REFERENCE: 4-31192
CURRENT APPLICATION NUMBER: US/09/715,249
PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: us 60/166594
PRIOR FILING DATE: 1999-11-19
PRIOR APPLICATION NUMBER: us 09/539248
PRIOR FILING DATE: 2000-03-30
NUMBER OF SEQ ID NOS: 16
SOFTWARE: PatentIn version 3.0
SEQ ID NO 8
LENGTH: 869
TYPE: PRT
ORGANISM: MusK

```

```

QY      19  EVTEGPOATVLKSGQAFNCTVSQMK-LIMWALSDMWLVLSVMEPIITNTRFTSQRY 77
Db      122  KITRPPIINKIIIEGKAVLPCTTGNPNPYSVWIKG-----SPURENGRIAVLE 171
QY      78  DOGNGFTSEMIINHYEPPSDGNIRCSLONSRLHSAY-LTYQWGELEFIPSVLVVAENE 136
Db      172  -----SSSLRIHNQKEDAGQYCVAKNSI- GTAVSKVYKLEFVFVRIILRAPSINHV 223
QY      137  P-----CEVTCLPSSHMTRLPRISW-ELGLLVSHSSYFYVEPBDLOSANSILATPQ 187
Db      224  TFGSFVTLHTCATGIP-----VPIITIMEGNVAVSSGSIQESVKNRVISRLQLFTPK- 277
QY      188  SVGLTTCVAT-----WKSILKARKSAKATVNLTVYIRCPQDTGGG 223
Db      278  -GLYTCTATNKHGEKFTYKAAATISIAEWSKQKQDNKG 315
RESULT 14

```

Patent No. 6780594  
GENERAL INFORMATION:  
APPLICANT: HE-STUMPP, HOLGER  
APPLICANT: HAENDLER, BERNARD  
APPLICANT: KRAETZSCHMAR, JOERN  
APPLICANT: KREFT, BERTHOLT  
APPLICANT: WINTERHAGER, ELKE  
APPLICANT: REGIDOR, PEDRO  
APPLICANT: SCOTTI, SIMONE  
TITLE OF INVENTION: METHOD FOR IN VITRO DIAGNOSIS OF ENDOMETRIOSIS  
FILE REFERENCE: SCH-1789  
CURRENT APPLICATION NUMBER: US/09/961,403  
NUMBER OF SEQ ID NOS: 15  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 3  
LENGTH: 1070  
TYPE: PRF  
ORGANISM: Homo sapiens  
US-09-961-403-3

Query Match 6.0%; Score 125; DB 4; Length 1070;  
Best Local Similarity 24.8%; Pred. No. 0.033;  
Matches 59; Conservative 34; Mismatches 109; Indels 36; Gaps 10;

QY 11 AVSGSGNEVIEGPONATVYKGSQARFNCTVS-QGKMLMALSDMVLSVRPMEPIITN 69  
DB 218 SIADESFAVAVLAPDVVAVRYEAMFHQFSAQPPSLQWLFEDPTPTNRSRPHLR 277  
QY 70 DFTSORVYQGGNFTEMIHNVPEPSDSGNIRCSLNSR-----LHGSAYLVTVQVWGELE 124  
DB 278 ATVFA-----NCSLLITQVRPNAGIYRCIGGQGRPPILAEATHLAETEMDPLF 328  
QY 125 IPSVNLVAENBECEVTCPLSHWTRLPDISWB-LGL-LVSHSXYFVPEPSDLSQSAVSL 182  
DB 329 BPRVFTAGSEB---RVTCLPPLGDPSPVWMEHAGVRLPHGRVY-----QKGHELV 378  
QY 183 ALTPQSN-GTLTCVATWKSLLKARKSATVNLTV-----IRCPDPTGGGINIPGVLSL 233  
DB 379 ANIASESDAGVYTCCHA--MLAGQRQDVITVATVPSWPKKQDQLBEGKPGYLDCL 434

RESULT 15  
US-09-651-200-2  
Sequence 2, Application US/09651200  
Patent No. 6429303  
GENERAL INFORMATION:  
APPLICANT: Green et al  
TITLE OF INVENTION: Polynucleotides Encoding Members of the Human B  
TITLE OF INVENTION: Lymphocyte Activation Antigen B-7 Family and  
FILE REFERENCE: 15966-562 (CURA-62)  
CURRENT APPLICATION NUMBER: US/09/651,200  
CURRENT FILING DATE: 2000-08-30  
PRIOR APPLICATION NUMBER: 60/152383  
PRIOR FILING DATE: 1999-09-03  
PRIOR APPLICATION NUMBER: 60/172909  
PRIOR FILING DATE: 1999-12-21  
PRIOR APPLICATION NUMBER: 60/183578  
PRIOR FILING DATE: 2000-02-18  
NUMBER OF SEQ ID NOS: 25  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 2  
LENGTH: 340  
TYPE: PRF  
ORGANISM: Homo sapiens  
US-09-651-200-2

Query Match 6.0%; Score 124.5; DB 4; Length 340;  
Best Local Similarity 21.2%; Pred. No. 0.0074;  
Matches 77; Conservative 51; Mismatches 127; Indels 109; Gaps 17;

QY 14 SSGSGNEVIEGPONATV-LKGSQARFNCTVS--QGKML-----IMMALSDMVLSVRPMEPI 66

DB 48 SPTGAVEVQVEPDPPVALVGTATLHCSFSPSPGSLTQYMLIMQLTDTKQLV----- 100  
QY 67 ITNDRFTSORVYQGGNF-----TSEMIHNVPEPSDSGNIRCSLNSRLNGS 112  
DB 101 ---HSFTBGR-DQGSAYANRTALPDDLAAQNASIRLQVRVADEGSPFCFV-SIRDFGS 155  
QY 113 AYLTVQWGELEFIPSVNLV-----VAENBECEVTCPLSHWTRLP--DISWELGL---LVSH 163  
DB 156 AAVSLQVAPAPSKPSMTLEPNKDLRPGDTVITTC--SSYRGYPAEAVFWQDQGVPLTGN 213  
QY 164 SSYFVPEPSDLSQSAVSLALTPQSNGLTCVATWKSLLKARKSATVNLTVIRCP---QDT 220  
DB 214 VTSQMANEGCLPDVHSLVRLVLANGNTYSC-----LVANPVUQDDA 255  
QY 221 GGGINIPGVLSLPSLGFSLPTWKGVLGLAGTMLLTPTCTLTIRCCCCRRRCCGCGNCCC 280  
DB 256 HGSVITITGQPMTFPPEAL---WTVGLSVCLIALLV----- 288  
QY 281 RCCFCRRKRGFRITQFOKSEKKTNETETESGNGNSGNSDQKTTETASLPKSCS 340  
DB 289 ALAFVCMRK-----IKQSCBENAGAEQDQ-----EGSGXTALQPLKHS 331  
QY 341 SDPE 344  
DB 332 KEDD 335  
Search completed: February 22, 2005, 19:36:02  
Job time : 20.0659 secs

**This Page Blank (uspto)**

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using ew model

Run on: February 22, 2005, 19:26:31 ; Search time 73.253 Seconds  
(without alignments)  
1724.366 Million cell updates/sec

Title: US-09-729-264-6

Perfect score: 2077  
Sequence: 1 MERHLITVPEAVSGSGNEV.....HPQASFNLASPEKVSNTTVV 386

Scoring table:  
BLOSUM62  
dapop 10.0 , Gapext 0.5

Searched: 1380268 seqs, 327241040 residues

Total number of hits satisfying chosen parameters: 1380268

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA:\*

- 1: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep.\*
- 5: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pep.\*
- 6: /cgn2\_6/ptodata/2/pubpaa/PCTUS\_PUBCOMB.pep.\*
- 7: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pep.\*
- 8: /cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pep.\*
- 9: /cgn2\_6/ptodata/2/pubpaa/US09\_PUBCOMB.pep.\*
- 10: /cgn2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/2/pubpaa/US09C\_NEW\_PUB.pep.\*
- 12: /cgn2\_6/ptodata/2/pubpaa/US10\_PUBCOMB.pep.\*
- 13: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep.\*
- 14: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep.\*
- 15: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/2/pubpaa/US10D\_PUBCOMB.pep.\*
- 17: /cgn2\_6/ptodata/2/pubpaa/US10D\_PUBCOMB.pep.\*
- 18: /cgn2\_6/ptodata/2/pubpaa/US11\_NEW\_PUB.pep.\*
- 19: /cgn2\_6/ptodata/2/pubpaa/US11\_NEW\_PUB.pep.\*
- 20: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2017	97.1	407	US-10-104-047-3074	Sequence 3074, App
2	151	7.3	390	US-10-309-290-98	Sequence 98, App1
3	151	7.3	390	US-10-309-290-100	Sequence 100, App
4	151	7.3	404	US-10-309-290-96	Sequence 96, App1
5	145.5	7.0	405	US-08-755-235-4	Sequence 4, App1
6	139.5	6.7	344	US-10-306-133-3	Sequence 3, App1
7	138.5	6.7	2473	US-10-184-644-559	Sequence 559, App
8	138.5	6.7	2473	US-10-184-634-559	Sequence 559, App
9	138	6.6	633	US-10-180-410-26	Sequence 26, App1
10	137.5	6.6	344	US-10-015-115-87	Sequence 87, App1
11	135	6.5	1477	US-10-274-583-20	Sequence 20, App1
12	135	6.5	1479	US-10-231-956A-325	Sequence 325, App
13	135	6.5	1496	US-10-021-660-125	Sequence 125, App

14	135	6.5	1496	15	US-10-331-496A-28	Sequence 28, App1
15	135	6.5	1496	15	US-10-211-462-87	Sequence 87, App1
16	135	6.5	1498	15	US-10-243-552-899	Sequence 899, App
17	135	6.5	1498	15	US-10-276-774-1957	Sequence 1957, App
18	134	6.5	592	14	US-10-180-410-2	Sequence 2, App1
19	134	6.5	592	15	US-10-312-528-2	Sequence 2, App1
20	134	6.5	594	14	US-10-180-410-12	Sequence 12, App1
21	134	6.5	594	15	US-10-312-528-12	Sequence 12, App1
22	134	6.5	708	13	US-10-052-586-584	Sequence 584, App
23	134	6.5	708	14	US-10-174-590-584	Sequence 584, App
24	134	6.5	708	14	US-10-176-758-584	Sequence 584, App
25	134	6.5	708	14	US-10-175-737-584	Sequence 584, App
26	134	6.5	708	14	US-10-174-581-584	Sequence 584, App
27	134	6.5	708	14	US-10-176-483-584	Sequence 584, App
28	134	6.5	708	14	US-10-176-749-584	Sequence 584, App
29	134	6.5	708	14	US-10-176-914-584	Sequence 584, App
30	134	6.5	708	14	US-10-176-915-584	Sequence 584, App
31	134	6.5	708	14	US-10-173-706-584	Sequence 584, App
32	134	6.5	708	14	US-10-175-738-584	Sequence 584, App
33	134	6.5	708	14	US-10-175-752-584	Sequence 584, App
34	134	6.5	708	14	US-10-176-482-584	Sequence 584, App
35	134	6.5	708	14	US-10-176-757-584	Sequence 584, App
36	134	6.5	708	14	US-10-176-913-584	Sequence 584, App
37	134	6.5	708	14	US-10-180-552-584	Sequence 584, App
38	134	6.5	708	14	US-10-180-557-584	Sequence 584, App
39	134	6.5	708	14	US-10-173-700-584	Sequence 584, App
40	134	6.5	708	14	US-10-174-572-584	Sequence 584, App
41	134	6.5	708	14	US-10-174-579-584	Sequence 584, App
42	134	6.5	708	14	US-10-174-582-584	Sequence 584, App
43	134	6.5	708	14	US-10-174-588-584	Sequence 584, App
44	134	6.5	708	14	US-10-175-739-584	Sequence 584, App
45	134	6.5	708	14	US-10-175-740-584	Sequence 584, App

## ALIGNMENTS

RESULT 1  
US-10-104-047-3074  
; Sequence 3074, Application US/10104047  
; Publication No. US20030236392A1  
; GENERAL INFORMATION:  
; APPLICANT: HELIX RESEARCH INSTITUTE  
; TITLE OF INVENTION: NO. US20030236392A1 full length cDNA  
; FILE REFERENCE: H1-A0105  
; CURRENT APPLICATION NUMBER: US/10/104,047  
; CURRENT FILING DATE: 2002-03-25  
; PRIOR APPLICATION NUMBER:  
; NUMBER OF SEQ ID NOS: 4096  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 3074  
; LENGTH: 407  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-104-047-3074

Query Match 97.1%; Score 2017; DB 15; Length 407;  
Best Local Similarity 100.0%; Pred. No. 3.7e-158;  
Matches 374; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	13	GGSGNEVIEGPNNTLVKGSQARFNCVYSGQWKLIMWLSMVVLSVPMPIITNDF	72	Sequence 87, App1
DB	34	GGSGNEVIEGPNNTLVKGSQARFNCVYSGQWKLIMWLSMVVLSVPMPIITNDF	93	Sequence 1957, App
QY	73	TSQARDGNGFTSEMIINHVEPSDGNIRCSLQNSRLHGSAYLTQVWMEFLIPSYNLV	132	Sequence 2, App1
DB	94	TSQARDGNGFTSEMIINHVEPSDGNIRCSLQNSRLHGSAYLTQVWMEFLIPSYNLV	153	Sequence 12, App1
QY	133	AENEPEVTCIPSHWTRLPDISWEIGLVSHSSYFVPEPSLOQSAVSLAATPQSGNLT	192	Sequence 584, App
DB	154	AENEPEVTCIPSHWTRLPDISWEIGLVSHSSYFVPEPSLOQSAVSLAATPQSGNLT	213	Sequence 584, App

```

QY 193 TCVAATWKSILKARKSATVNLTVIRCPDPTGGGINIPGVLSLPSLGFSLPTWKGVLGAG 252
DB 214 TCVAATWKSILKARKSATVNLTVIRCPDPTGGGINIPGVLSLPSLGFSLPTWKGVLGAG 273
QY 253 TMLLTPTCTLTTRCCRRRCGCCGCCRCRRKRFRIOFOKSEKETMKEETE 312
DB 274 TMLLTPTCTLTTRCCRRRCGCCGCCRCRRKRFRIOFOKSEKETMKEETE 333
QY 313 SGNENSGYNSDECKTETSLPPKSCSSDPQRNNSCGPPHORADQRP RPASHPOASF 372
DB 334 SGNENSGYNSDCKTETSLPPKSCSSDPQRNNSCGPPHORADQRP RPASHPOASF 393
QY 373 NLASPEKVSNTTVV 386
DB 394 NLASPEKVSNTTVV 407

```

## RESULT 2

```

US-10-309-290-98
; Sequence 98, Application US/10309290
; Publication No. US20040023241A1
; GENERAL INFORMATION:
; APPLICANT: Alsobrook II, John P.
; APPLICANT: Anderson, David W.
; APPLICANT: Boldog, Ferenc L.
; APPLICANT: Burgess, Catherine E.
; APPLICANT: Chilikuru, Rajeev A.
; APPLICANT: Edinger, Shlomit R.
; APPLICANT: Gerlach, Valerie L.
; APPLICANT: Gorman, Linda
; APPLICANT: Gould-Rothberg, Bonnie E.
; APPLICANT: Guo, Xiaojia
; APPLICANT: Jeffers, Michael E.
; APPLICANT: Ji, Weizhen
; APPLICANT: Li, Li
; APPLICANT: Malyankar, Uriel M.
; APPLICANT: Miller, Charles E.
; APPLICANT: Murphey, Ryan
; APPLICANT: Patturajan, Meera
; APPLICANT: Peyman, John A.
; APPLICANT: Rastelli, Luca
; APPLICANT: Rieger, Daniel K.
; APPLICANT: Shenoy, Suresh G.
; APPLICANT: Smithson, Glenda
; APPLICANT: Starling, Gary
; APPLICANT: Taupier, Raymond J.
; APPLICANT: Voss, Edward Z.
; APPLICANT: Zhong, Haihong
; APPLICANT: Zhong, Wei
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-502A
; CURRENT APPLICATION NUMBER: US/10309,290
; PRIOR APPLICATION NUMBER: 2002-12-02
; PRIOR APPLICATION NUMBER: 60/336,600
; PRIOR FILING DATE: 2001-12-05
; PRIOR APPLICATION NUMBER: 60/338,285
; PRIOR FILING DATE: 2001-12-07
; PRIOR APPLICATION NUMBER: 60/341,346
; PRIOR FILING DATE: 2001-12-12
; PRIOR APPLICATION NUMBER: 60/341,477
; PRIOR FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: 60/341,540
; PRIOR FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: 60/342,592
; PRIOR FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: 60/344,297
; PRIOR FILING DATE: 2001-12-27
; PRIOR APPLICATION NUMBER: 60/344,903
; PRIOR FILING DATE: 2001-12-31
; PRIOR APPLICATION NUMBER: 60/373,288
; PRIOR FILING DATE: 2002-04-17
; PRIOR APPLICATION NUMBER: 60/380,981
; PRIOR FILING DATE: 2002-05-15

```

```

; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 274
; SOFTWARE: CuroSeqList version 0.1
; SEQ ID NO 98
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-309-290-98

```

```

Query Match 7.3%; Score 151; DB 15; Length 390;
Best Local Similarity 23.3%; Pred. No. 0.00062;
Matches 90; Conservative 38; Mismatches 112; Indels 146; Gaps 19;

```

```

QY 9 PEAVSGSGNEVIEGPQNAVTVLKSQAFNCTVSQG---WKLIMVALSDWVLSVRPMEP 65
DB 110 PEIVDSAS--ELTAAVNP-----KVGTCVSEGSYPAGTILSMHLDG-----KP 149
QY 66 IITNDRFTS-----QRYDOGNFT--SEMILHNVEPDSGNIR---CSLQNSRLHGSAY 114
DB 150 LVPNEKGVSVKEQRRHREFTGLFTLQSELM---VTPARGDPPRTSCSFSFGLPRHRAL 206
QY 115 LTVQVMGSLFIP---SVNLVAENEP-----CEVTCLPSSHWTSLPDISWE 156
DB 207 RTAPIQPRWEPVPLAEVOLVV---EBEGAVAPGTVTLTCEVPAQPS-----PQIHMM 258
QY 157 LGLVSHSYVFVEPEPDLQSAVSIILATPOSNGTLTCAVATWKSILKARKSATVNLTVIRC 216
DB 259 KD-----GVFLPFPSPVLTLPRIQPDGTVSCVAVTHSHQPOESRAVSIIR- 308
QY 217 PQTGGGINIPGVLSLPSLGFSLPTWKGVLGAGTMLLT-----PTCTLTTRCCCC 269
DB 309 PGEERG-----PTAGSVGSGGLGTLALAGLGLTALLIGVILI 349
QY 270 RRRCCGCCGCCRCFCRCRRKRFRIOFOKSEKET--NKEFTESGNENSGYNSDEQKT 327
DB 350 QRR-----QRRGERRAVENQEEERABIN----- 375
QY 328 TETASLPPKSCSSDPQRNNSCGPP 353
DB 376 -----QSEEPDAGESSSTGGP 390

```

## RESULT 3

```

US-10-309-290-100
; Sequence 100, Application US/10309290
; Publication No. US20040023241A1
; GENERAL INFORMATION:
; APPLICANT: Alsobrook II, John P.
; APPLICANT: Anderson, David W.
; APPLICANT: Boldog, Ferenc L.
; APPLICANT: Burgess, Catherine E.
; APPLICANT: Chilikuru, Rajeev A.
; APPLICANT: Edinger, Shlomit R.
; APPLICANT: Gerlach, Valerie L.
; APPLICANT: Gorman, Linda
; APPLICANT: Gould-Rothberg, Bonnie E.
; APPLICANT: Guo, Xiaojia
; APPLICANT: Jeffers, Michael E.
; APPLICANT: Ji, Weizhen
; APPLICANT: Li, Li
; APPLICANT: Malyankar, Uriel M.
; APPLICANT: Miller, Charles E.
; APPLICANT: Murphey, Ryan
; APPLICANT: Patturajan, Meera
; APPLICANT: Peyman, John A.
; APPLICANT: Rastelli, Luca
; APPLICANT: Rieger, Daniel K.
; APPLICANT: Shenoy, Suresh G.
; APPLICANT: Smithson, Glenda
; APPLICANT: Starling, Gary
; APPLICANT: Taupier, Raymond J.
; APPLICANT: Voss, Edward Z.
; APPLICANT: Zhong, Haihong

```



```

; APPLICANT: Zhong, Mei
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-502A
; CURRENT APPLICATION NUMBER: US/10/309,290
; PRIOR FILING DATE: 2002-12-02
; PRIOR APPLICATION NUMBER: 60/336,600
; PRIOR FILING DATE: 2001-12-05
; PRIOR APPLICATION NUMBER: 60/338,285
; PRIOR FILING DATE: 2001-12-07
; PRIOR APPLICATION NUMBER: 60/341,346
; PRIOR FILING DATE: 2001-12-12
; PRIOR APPLICATION NUMBER: 60/341,477
; PRIOR FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: 60/341,540
; PRIOR FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: 60/342,592
; PRIOR FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: 60/344,297
; PRIOR FILING DATE: 2001-12-27
; PRIOR APPLICATION NUMBER: 60/344,903
; PRIOR FILING DATE: 2001-12-31
; PRIOR APPLICATION NUMBER: 60/373,288
; PRIOR FILING DATE: 2002-04-17
; PRIOR APPLICATION NUMBER: 60/380,981
; PRIOR FILING DATE: 2002-05-15
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 274
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO: 100
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-309-290-100

```

Query Match 7.3%; Score 151; DB 15; Length 390;

Best Local Similarity 23.3%; Pred. No. 0.0062;

Matches 90; Conservative 38; Mismatches 112; Indels 146; Gaps 19;

```

QY 9 PEAVSGSGNEVIEGPONATVLKGSQARFNCVTSQG--WKLIMALSDMVLSVRPMEP 65
DB 110 PEIVDSAS--ELTAGVFN-----KVGTCSSEGSYPAGTILSMHLDG-----KP 149
QY 66 IITNDRFTS-----QRYDGGNFT--SEMIINHVBSDSGNIR-----CSLQSRRLHGSAY 114
DB 150 LVNENKGVSVKQETRRHPETGLFTLOSELN--VTPARGDPRPTSCSPSPGLPRHRL 206
QY 115 LTVQVNGELFIP-----SVLVVAENEP-----CEVTCLPSTMTRLPDISWE 156
DB 207 RTAPIGPRWEPRLPEVQLV--EPGGAVAPGGTVTLTCEVPAQPS-----PQIHNM 258
QY 157 LGLLVSHSSYFVPEPSDLOSASVIALTPQSNGLTLCVATWKSLLKARKSATVNLTVIRC 216
DB 259 KD-----GVPLRLPSPVILPEIGPDQGTYSVCVATHSHGPOESRAVISIIE- 308
QY 217 PQTGGGINIPGLVSLPLSGFSLPTWKKVGLGLAGTMLT-----PCTCLTIRCCC 269
DB 309 PGEEG-----PTAGSVSGSLGTALALAILGLGTAALLIIVILM 349
QY 270 RRRCCGCCNCCRCFCRRKRGFRIOFKKSEKXT--NKETESGENENSGYNSDEQKT 327
DB 350 QRR-----QRRGERKAPENGEEREAELN----- 375
QY 328 TETASLPPKSCSSDPEQRNSCGPP 353
DB 376 -----QSEEPBEGESSTGCP 390

```

```

RESULT 4
US-10-309-290-96
; Sequence 96; Application US/10309290
; Publication No. US20040023241A1
; GENERAL INFORMATION:
; APPLICANT: Alabobcock II, John P.

```

```

; APPLICANT: Anderson, David W.
; APPLICANT: Boldog, Ferenc L.
; APPLICANT: Burgess, Catherine E.
; APPLICANT: Chillakuru, Rajeev A.
; APPLICANT: Edinger, Shlomit R.
; APPLICANT: Gerlach, Valerie L.
; APPLICANT: Gorman, Linda
; APPLICANT: Gould-Rothberg, Bonnie E.
; APPLICANT: Guo, Xiaojia
; APPLICANT: Jeffers, Michael E.
; APPLICANT: Ji, Weizhen
; APPLICANT: Li, Li
; APPLICANT: Malvankar, Uriel M.
; APPLICANT: Miller, Charles E.
; APPLICANT: Murphy, Ryan
; APPLICANT: Paturajan, Meera
; APPLICANT: Peyman, John A.
; APPLICANT: Rastelli, Luca
; APPLICANT: Rieger, Daniel K.
; APPLICANT: Shenoy, Suresh G.
; APPLICANT: Smithson, Glenda
; APPLICANT: Starling, Gary
; APPLICANT: Taupier, Raymond J.
; APPLICANT: Voss, Edward Z.
; APPLICANT: Zhong, Haibong
; APPLICANT: Zhong, Mei
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-502A
; CURRENT APPLICATION NUMBER: US/10/309,290
; PRIOR FILING DATE: 2002-12-02
; PRIOR APPLICATION NUMBER: 60/336,600
; PRIOR FILING DATE: 2001-12-05
; PRIOR APPLICATION NUMBER: 60/338,285
; PRIOR FILING DATE: 2001-12-07
; PRIOR APPLICATION NUMBER: 60/341,346
; PRIOR FILING DATE: 2001-12-12
; PRIOR APPLICATION NUMBER: 60/341,477
; PRIOR FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: 60/341,540
; PRIOR FILING DATE: 2001-12-17
; PRIOR APPLICATION NUMBER: 60/342,592
; PRIOR FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: 60/344,297
; PRIOR FILING DATE: 2001-12-27
; PRIOR APPLICATION NUMBER: 60/344,903
; PRIOR FILING DATE: 2001-12-31
; PRIOR APPLICATION NUMBER: 60/373,288
; PRIOR FILING DATE: 2002-04-17
; PRIOR APPLICATION NUMBER: 60/380,981
; PRIOR FILING DATE: 2002-05-15
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 274
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO: 96
; LENGTH: 404
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-309-290-96

```

Query Match 7.3%; Score 151; DB 15; Length 404;

Best Local Similarity 23.3%; Pred. No. 0.0065;

Matches 90; Conservative 38; Mismatches 112; Indels 146; Gaps 19;

```

QY 9 PEAVSGSGNEVIEGPONATVLKGSQARFNCVTSQG--WKLIMALSDMVLSVRPMEP 65
DB 124 PEIVDSAS--ELTAGVFN-----KVGTCSSEGSYPAGTILSMHLDG-----KP 163
QY 66 IITNDRFTS-----QRYDGGNFT--SEMIINHVBSDSGNIR-----CSLQSRRLHGSAY 114
DB 164 LVNENKGVSVKQETRRHPETGLFTLOSELN--VTPARGDPRPTSCSPSPGLPRHRL 220
QY 115 LTVQVNGELFIP-----SVLVVAENEP-----CEVTCLPSTMTRLPDISWE 156

```

```

Db      221 RTAPIQRRWEPPVLEEVOLV---BPEGGAAPGCTVTLTCEVPAQPS-----PQIHMM 272
Qy      157 LGLLVSHSSYYFVPEPSDLOSAVSIALTPQSNGLTLCVAATWKSLSKARSAATVNLTVIRC 216
Db      273 KD-----GVPFLPPEPVILPEIGPQDGTISCVATHSHSQPOBSRAVVISIIE- 322
Qy      217 PDRTGGGINIPGVLSLPSLGSFLPTWAKVGLAGTMTLT-----PTCTLTIRCCC 269
Db      323 PGEERG-----PTAGSVGSGGLTLLALGILGIGTALLIGVILM 363
Qy      270 RRRCCGNCNCCRCFCRRRRGFRIGFOKSEKERT--NKETETSGNENSGYNDEQKT 327
Db      364 QRR-----QRRGERKAPENQEBEERAEIN----- 389
Qy      328 TETASLPKSCSSSDPEQNSGCCPP 353
Db      390 -----QSEEPHAGESSTGCP 404

```

```

RESULT 5
US-08-755-235-4
; Sequence 4, Application US/08755235
; Publication No. US20030059423A1
; GENERAL INFORMATION:
; APPLICANT: Stern, David M.
; APPLICANT: Schmidt, Ann Marie
; TITLE OF INVENTION: METHOD FOR TREATING SYMPTOMS OF DIABETES
; FILE REFERENCE: 0575/50159
; CURRENT APPLICATION NUMBER: US/08/755, 235
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 4
; LENGTH: 405
; TYPE: PRT
; ORGANISM: Human
US-08-755-235-4

```

```

Query Match
Best Local Similarity 7.0%; Score 145.5; DB 8; Length 405;
Matches 91; Conservative 38; Mismatches 111; Indels 147; Gaps 20;

Qy      9 PEAVSGSGNEVEGPNATVTKGSQARFNCYSGC---WKLIMALSDMVVLSVRPMP 65
Db      124 PEIVDSAS--ELTAGVPN-----KVGTCVSESGYPAGTLSWHLDG-----KP 163
Qy      66 IITNDPFTS-----QRYDQGNFT--SEMIINNVPEPSDSGNIR---CSLQNSRLHGSAY 114
Db      164 LVENKGVSVKQTRRHPTGLFTLQSEIM---VTPARGDPRPTFSGSFGLPRHRAL 220
Qy      115 LTVQVWGELEFIP---SVNLVVAENEP-----CEVTCLEPSHWTLPDISWE 156
Db      221 RTAPIQRRWEPPVLEEVOLV---BPEGGAAPGCTVTLTCEVPAQPS-----PQIHMM 272
Qy      157 LGLLVSHSSYYFVPEPSDLOSAVSIALTPQSNGLTLCVAATWKSLSKARSAATVNLTVIRC 216
Db      273 KD-----GVPFLPPEPVILPEIGPQDGTISCVATHSHSQPOBSRAVVISIIE- 322
Qy      217 PDRTGGGINIPGVLSLPSLGSFLPTWAKVGLAGTMTLT-----PTCTLTIRCCC 269
Db      323 PGEERG-----PTAGSVGSGGLTLLALGILGIGTALLIGVILM 363
Qy      270 RRRCCGNCNCCRCFCRRRRGFRIGFOKSEKERT--NKETETSGNENSGYNDEQKT 327
Db      364 QRR-----QRRGERKAPENQEBEERAEIN----- 389
Qy      328 TETASLPKSCSSSDPEQNSGCCPP 353
Db      390 -----QSEEPHAGESSTGCP 404

```

RESULT 6

US-10-306-133-3

```

; Sequence 3, Application US/10306133
; Publication No. US20030100485A1
; GENERAL INFORMATION:
; APPLICANT: Lal, Preeti
; TITLE OF INVENTION: HUMAN NEUROTROPIC HOMOLOG
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304

```

COMPUTER READABLE FORM:

```

; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0

```

```

; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/306,133
; FILING DATE: 27-No. US20030100485A1-2002
; CLASSIFICATION: <Unknown>

```

```

; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/009,841
; FILING DATE: <Unknown>

```

```

; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0463 US

```

```

; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX: <Unknown>

```

```

; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 344 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 755185

```

```

; SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-10-306-133-3

```

```

Query Match
Best Local Similarity 6.7%; Score 139.5; DB 14; Length 344;
Matches 66; Conservative 40; Mismatches 110; Indels 49; Gaps 13;

Qy      3 RHLTVPEAVSGSGNEVEI--EGPQNAATVTKGSQARFNCYSGCWLIMALSDMVVLS-- 59
Db      20 RLLFLVFPGVFVRSGDATTFRKAMDNVTVRQGESATLRTCTIDNVTVMALNRSTIIAYGN 79
Qy      60 ----VRPEPIITTDRTFSQRYDQGNFTSEMIINNVPEPSDSGNIRCSIQ-----NSRL 109
Db      80 DKWCLDPRVVLN---TQRY-----SIEIQNDVYDEBPYTCVSQTDNDHPRKTSRY 128
Qy      110 HGSAYLTVQWGELEFIPSVNLVVAENEPCEVTCLEPSHWTLPDISWEGLVLSHSYFV 169
Db      129 H----LTVQVSPKIVEISDISINEGNNISLTCIATGRPE-PTVYTR--HISPRAVGFV 180
Qy      170 PEPDLOSAVSIALTPQSNGLTLCVAATWKSLSKARSAATVNLTVIRCP-----PDGCGGI 224
Db      181 SEDRYLE----IGITRBOGGEYECAS--NDVAAAPVVRVNTVYVPPYISBAKGTGVYV 235
Qy      225 NIPGVL---SSLPSLGSFLPTWGX 245
Db      236 GOKGTLOCEASAVSAFAFQ---WFK 257

```

RESULT 7

```
US-10-184-644-559
; Sequence 559, Application US/10184644
; Publication No. US2003004930A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C227
; CURRENT APPLICATION NUMBER: US/10/184,644
; CURRENT FILING DATE: 2002-06-28
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 559
; LENGTH: 2473
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-184-644-559

Query Match
Best Local Similarity 29.5%; Score 138.5; DB 14; Length 2473;
Matches 31; Conservative 3; Mismatches 36; Indels 35; Gaps 2;

QY 183 ALTPQSNGLTTCVATWKSILKARKSATVNLTVIRCPDPTGGGINIPGVLSLPSLSRLPT 242
DB 2274 AATTGAAGTTCAATTAATTAATTAATGATGTTCC----- 2307
QY 243 WGVVGLAGTMLTPCTLTIRCCGCR-RRCCGNCRCRCFC 286
DB 2308 -----ATTCCTCATGCCCAACCCACCCGCCGCCACCC 2344

RESULT 8
US-10-184-634-559
; Sequence 559, Application US/10184634
; Publication No. US2003006868A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C217
; CURRENT APPLICATION NUMBER: US/10/184,634
; CURRENT FILING DATE: 2002-06-28
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 559
; LENGTH: 2473
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-184-634-559

Query Match
Best Local Similarity 29.5%; Score 138.5; DB 14; Length 2473;
Matches 31; Conservative 3; Mismatches 36; Indels 35; Gaps 2;
```

```
QY 183 ALTPQSNGLTTCVATWKSILKARKSATVNLTVIRCPDPTGGGINIPGVLSLPSLSRLPT 242
DB 2274 AATTGAAGTTCAATTAATTAATTAATGATGTTCC----- 2307
QY 243 WGVVGLAGTMLTPCTLTIRCCGCR-RRCCGNCRCRCFC 286
DB 2308 -----ATTCCTCATGCCCAACCCACCCGCCGCCACCC 2344

RESULT 9
US-10-180-410-26
; Sequence 26, Application US/10180410
; Publication No. US20030148382A1
; GENERAL INFORMATION:
; APPLICANT: SUN, CHAO
; APPLICANT: CARULLI, JOHN P.
; APPLICANT: LUKASHIN, ALEXANDER V.
; APPLICANT: KILBURN, DANIEL R.
; TITLE OF INVENTION: PANGAM NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: A097 CIP
; CURRENT APPLICATION NUMBER: US/10/180,410
; CURRENT FILING DATE: 2002-06-24
; PRIOR APPLICATION NUMBER: PCT/US01/19904
; PRIOR FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: 60/213,611
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 26
; LENGTH: 633
; TYPE: PRP
; ORGANISM: Homo sapiens
US-10-180-410-26

Query Match
Best Local Similarity 24.1%; Score 138; DB 14; Length 633;
Matches 54; Conservative 40; Mismatches 100; Indels 30; Gaps 10;

QY 14 SSGSNEVIEBGPONATVILKSGQARFNCTVSGWKLIMALSDMVLVSVRMEPIITNDRT 73
DB 20 AGPSPHFLQOPBDLVLLGEEARLPCALGAYVGLVQWTKSGALGQOR-----DLRG 71
QY 74 SORYDQGNFTS---EMITHNVEPDSGNIRSLONSRLHG-SALVTV-----QVME 122
DB 72 WSRWISGNAAAGOHDLHLPVELDEASVEQATQAGRSRPAQDLHLVPEADQVLG 131
QY 123 LFIPIVNLVAENEPCEVTCLEPSHWTR-LPDISW-ELGLVSHSYY--FVPE--PSDQ 176
DB 132 ---PSVSLVA--GVPAWLTCRSRGDARPPPELLMFRDGVLLGAGATFHQTLREGTPGSVE 186
QY 177 SAVSILALTPQSNGLTTCVATWKSILKARKSATVNLTVIRCPDPT 220
DB 187 STLTLTPFSDHGDATLVCAASQALPTGRDTAITLSLQYPEVT 230

RESULT 10
US-10-015-115-87
; Sequence 87, Application US/10015115
; Publication No. US20030207800A1
; GENERAL INFORMATION:
; APPLICANT: Malyankar, Uriel M
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Zelnusen, Bryan D
; APPLICANT: Paturajan, Meera
; APPLICANT: Guo, Xiaojia
; APPLICANT: Kekuda, Ramesha
; APPLICANT: Gangolli, Esna A
; APPLICANT: Shimkets, Richard A
; APPLICANT: Taupier, Raymond J
; APPLICANT: Li, Li
; APPLICANT: Padigar, Muralidhara
```

```

; TITLE OF INVENTION: Proteins, Polynucleotides Encoding Them and Methods of
; FILE REFERENCE: 21402-211
; CURRENT APPLICATION NUMBER: US/10/015,115
; PRIOR FILING DATE: 2002-09-23
; PRIOR APPLICATION NUMBER: 60/248,153
; PRIOR FILING DATE: 2000-11-13
; PRIOR APPLICATION NUMBER: 60/249,598
; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: 60/264,240
; PRIOR FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/266,127
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: 60/269,562
; PRIOR FILING DATE: 2001-02-16
; PRIOR APPLICATION NUMBER: 60/304,348
; PRIOR FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/309,261
; PRIOR FILING DATE: 2001-07-31
; PRIOR APPLICATION NUMBER: 60/313,283
; NUMBER OF SEQ ID NOS: 205
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 87
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Gallus gallus
US-10-015-115-87

Query Match
Best Local Similarity 6.6%; Score 137.5; DB 15; Length 344;
Matches 70; Conservative 38; Mismatches 104; Indels 57; Gaps 14;

QY 3 RHLTVBEAVSGSGNEFVI-EGPQNAITVKGSOARFNCYVSQ-----GW---KLIMWALS 53
DB 20 RLFLTVAGVPRVSGDPTFKANDMTVVGESATIRCSVDNRVTRVVALNRSSILYAGN 79
QY 54 DMVVLSTVRPMEPIITNDRTFSQRYDDGNGFTSMIITHNVEPDSGNIKCSLQ-----NS 107
DB 80 DKXCLDPRVLLANTQVSIQ-----IHDVDVYDEGPTCSVQTDNHPKTS 126
QY 108 RLHGSAVLTVOVNGELFIPSVNLVVAENEPCEVTCLPSHWTRLPD--ISMELGLVSHS 165
DB 127 RVH----LTVQVPEKITEISDSISIEGNSITCA--TFRPPITWR---HISPKA 176
QY 166 YVVPPEPSDQSAVSLATLPQSGNGLTVVATWKSLLKARKSATVNLTV-----IRCPQDT 220
DB 177 VGFISDEYLE-----ITGITREOSGEYECSAS-NDVAPVVOQKVTNYPPIISDAKST 231
QY 221 GGGINIPGVL-----SGLPSLGFSLPTWCK 245
DB 232 GVPVGGKGLMCEASAVPSADPQ---WYK 257

RESULT 11
US-10-274-583-20
; Sequence 20, Application US/10274583
; Publication No. US20030138431A1
; GENERAL INFORMATION:
; APPLICANT: Exelixis, Inc.
; TITLE OF INVENTION: LRCGAs AS MODIFIERS OF THE p53 PATHWAY AND METHODS OF USE
; FILE REFERENCE: EX02-119C
; CURRENT APPLICATION NUMBER: US/10/274,583
; PRIOR FILING DATE: 2002-10-21
; PRIOR APPLICATION NUMBER: 60/338,733
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: 60/357,600
; PRIOR FILING DATE: 2002-02-15
; PRIOR APPLICATION NUMBER: 60/361,196
; PRIOR FILING DATE: 2002-03-01
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 20

```

```

; LENGTH: 1477
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-274-583-20

Query Match
Best Local Similarity 6.5%; Score 135; DB 14; Length 1477;
Matches 73; Conservative 36; Mismatches 127; Indels 56; Gaps 15;

QY 13 GSGSGNEVIEGPQNAITVKGSOARFNCYVS-OGKWLIMWALSDMVLSVRPMEPIITNDR 71
DB 337 GSPAPPTVIOPOÑTEVLVGSVTLSCATGHPPRISMTRGDRTPLPVPPRVNITS-- 394
QY 72 FTSQRYDDGNGFTSMIITHNVEPDSGNIKCSLQNS--RLHGSAVLTVOVNGELFIPSVN 129
DB 395 -----G-----LTVQNVQDSSEYVACSATNNIDSHAFITVQALPQFTVPPQD 441
QY 130 LVVAENEPCEVTCLPSHWTRLPDISW-ELGLVSHSSYFVVPPEPSDQSAVSLATLPQS 188
DB 442 RVVIEGQTVDPQC-EAKGNPPVIAWTKGSGQLSVDRRHVLVSSGTLR--ISGVALLHDQ- 497
QY 189 NGTLTCAVATWKSLLKARKSATVNLTV-----IRCPQDT-----GGGINIPGVLSLPSL 236
DB 498 -GQYECQAV--NIIGSKVVAHLTVQPRVTPVPAISPSDITVEVGVANVQLP-----CSSQ 549
QY 237 GFSLP--TWKRVGLGL--AGTMLLTPTCTLTI-----RCCCRRCG 275
DB 550 GEPEPALTWKKDGVQVTESGKPHISPEGLITINDVPADAGREYCAVARTTG 601

RESULT 12
US-10-231-956A-325
; Sequence 325, Application US/10231956A
; Publication No. US20040053233A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Weiduan
; APPLICANT: Bogenberger, Jakob
; APPLICANT: Holland, Sacha
; APPLICANT: Rigel Pharmaceuticals, Incorporated
; TITLE OF INVENTION: Modulators of Angiogenesis
; FILE REFERENCE: 021044-004100US
; CURRENT APPLICATION NUMBER: US/10/231,956A
; CURRENT FILING DATE: 2001-08-30
; NUMBER OF SEQ ID NOS: 522
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 325
; LENGTH: 1479
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-231-956A-325

Query Match
Best Local Similarity 6.5%; Score 135; DB 15; Length 1479;
Matches 73; Conservative 36; Mismatches 127; Indels 56; Gaps 15;

QY 13 GSGSGNEVIEGPQNAITVKGSOARFNCYVS-OGKWLIMWALSDMVLSVRPMEPIITNDR 71
DB 337 GSPAPPTVIOPOÑTEVLVGSVTLSCATGHPPRISMTRGDRTPLPVPPRVNITS-- 394
QY 72 FTSQRYDDGNGFTSMIITHNVEPDSGNIKCSLQNS--RLHGSAVLTVOVNGELFIPSVN 129
DB 395 -----G-----LTVQNVQDSSEYVACSATNNIDSHAFITVQALPQFTVPPQD 441
QY 130 LVVAENEPCEVTCLPSHWTRLPDISW-ELGLVSHSSYFVVPPEPSDQSAVSLATLPQS 188
DB 442 RVVIEGQTVDPQC-EAKGNPPVIAWTKGSGQLSVDRRHVLVSSGTLR--ISGVALLHDQ- 497
QY 189 NGTLTCAVATWKSLLKARKSATVNLTV-----IRCPQDT-----GGGINIPGVLSLPSL 236
DB 498 -GQYECQAV--NIIGSKVVAHLTVQPRVTPVPAISPSDITVEVGVANVQLP-----CSSQ 549
QY 237 GFSLP--TWKRVGLGL--AGTMLLTPTCTLTI-----RCCCRRCG 275

```

Db 550 GEPEPATNNKQGVQVTEGSKFHISPEGFLTTINDVGPADAGRECVARNITIG 601

## RESULT 13

US-10-021-660-125  
; Sequence 125, Application US/10021660  
; Publication No. US20030152926A1  
; GENERAL INFORMATION:  
; APPLICANT: Murray, Richard  
; APPLICANT: Glynn, Richard  
; APPLICANT: Watson, Susan R.  
; APPLICANT: EOS Biotechnology, Inc.  
; TITLE OF INVENTION: No. US20030152926A1e1 Methods of Diagnosis of Angiogenesis,  
; TITLE OF INVENTION: Compositions and Methods of Screening for Angiogenesis  
; FILE REFERENCE: 018501-000710US  
; CURRENT APPLICATION NUMBER: US/10/021,660  
; CURRENT FILING DATE: 2001-12-06  
; PRIOR APPLICATION NUMBER: US/09/784,356  
; PRIOR FILING DATE: 2001-02-14  
; PRIOR APPLICATION NUMBER: US 09/637,977  
; PRIOR FILING DATE: 2000-08-11  
; NUMBER OF SEQ ID NOS: 135  
; SOFTWARE: PaetSeq for Windows Version 3.0  
; SEQ ID NO 125  
; LENGTH: 1496  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-021-660-125

Query Match 6.5%; Score 135, DB 14, Length 1496;  
Best Local Similarity 25.0%; Pred. No. 0.075;  
Matches 73; Conservative 36; Mismatches 127; Indels 56; Gaps 15;

QY 13 GSGSGNEVEEGPONATVLKGSQARFNCTVS--QGWKLIMALSDMYVLSRPMPIITNTR 71  
DB 354 GSPARFTYIQONTNVLGSESVTLCSATGHPPPRISWTRGDRPLPDPFVNITPS-- 411  
QY 72 FTSQRDOGNGFTSEMIHNVPEPSDGNTRCSLONS--RLHGSAYLTVQVMGELFIPSVN 129  
DB 412 -----GG-----LYIQNVQGSDEYACSAATNNIDSVHATAFIIVQALPQFTYTPD 458  
QY 130 LVAENEPCEVTCPLPSHMTLRLPDIS-ELGLVSHSSYFVPEPSDQSAVSLIATLTPQS 188  
DB 459 RVVIEGQTVDFQC-EAKGNPPPIVAMTKGSQLSVDRRLVLSSTGLR--ISGVALHDQ- 514  
QY 189 NGTLTCVATWKSLLKARKSATVNLTV-----IRCPDT---GGGINIPGVLSLPSL 236  
DB 515 -QGYEQAV--NIGSQKVVAHLTVQPRTPVPFASIPSDTTVEVGANVQLP-----CSSQ 566  
QY 237 GFSLP--TWGKVGGLG--AGTMLLTPCTTLTI-----RCCCRRCRCG 275  
DB 567 GEPEPATNNKQGVQVTEGSKFHISPEGFLTTINDVGPADAGRECVARNITIG 618

## RESULT 14

US-10-331-496A-28  
; Sequence 28, Application US/10331496A  
; Publication No. US20030228305A1  
; GENERAL INFORMATION:  
; APPLICANT: PRANTZ, GRETCHEN  
; APPLICANT: HILLAN, KENNETH J.  
; APPLICANT: PHILLIPS, HEIDI S.  
; APPLICANT: POLAKIS, PAUL  
; APPLICANT: SMITH, VICTORIA  
; APPLICANT: SPENCER, SUSAN D.  
; APPLICANT: WILLIAMS, P. MICKEY  
; APPLICANT: WU, THOMAS D.  
; APPLICANT: ZHANG, ZEMIN  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND  
; TITLE OF INVENTION: TREATMENT OF TUMOR  
; FILE REFERENCE: P5014R1-PCT

; CURRENT APPLICATION NUMBER: US/10/331,496A

; CURRENT FILING DATE: 2002-12-30  
; PRIOR APPLICATION NUMBER: US 60/345,444  
; PRIOR FILING DATE: 2002-01-02  
; PRIOR APPLICATION NUMBER: US 60/351,885  
; PRIOR FILING DATE: 2002-01-25  
; PRIOR APPLICATION NUMBER: US 60/360,066  
; PRIOR FILING DATE: 2002-02-25  
; PRIOR APPLICATION NUMBER: US 60/362,004  
; PRIOR FILING DATE: 2002-03-05  
; PRIOR APPLICATION NUMBER: US 60/366,869  
; PRIOR FILING DATE: 2002-03-20  
; PRIOR APPLICATION NUMBER: US 60/366,284  
; PRIOR FILING DATE: 2002-03-21  
; PRIOR APPLICATION NUMBER: US 60/368,679  
; PRIOR FILING DATE: 2002-03-28  
; PRIOR APPLICATION NUMBER: US 60/404,809  
; PRIOR FILING DATE: 2002-06-19  
; PRIOR APPLICATION NUMBER: US 60/405,645  
; PRIOR FILING DATE: 2002-08-21  
; NUMBER OF SEQ ID NOS: 95  
; SEQ ID NO 28  
; LENGTH: 1496  
; TYPE: PRT  
; ORGANISM: Homo sapien  
US-10-331-496A-28

Query Match 6.5%; Score 135, DB 15, Length 1496;  
Best Local Similarity 25.0%; Pred. No. 0.075;  
Matches 73; Conservative 36; Mismatches 127; Indels 56; Gaps 15;

QY 13 GSGSGNEVEEGPONATVLKGSQARFNCTVS--QGWKLIMALSDMYVLSRPMPIITNTR 71  
DB 354 GSPARFTYIQONTNVLGSESVTLCSATGHPPPRISWTRGDRPLPDPFVNITPS-- 411  
QY 72 FTSQRDOGNGFTSEMIHNVPEPSDGNTRCSLONS--RLHGSAYLTVQVMGELFIPSVN 129  
DB 412 -----GG-----LYIQNVQGSDEYACSAATNNIDSVHATAFIIVQALPQFTYTPD 458  
QY 130 LVAENEPCEVTCPLPSHMTLRLPDIS-ELGLVSHSSYFVPEPSDQSAVSLIATLTPQS 188  
DB 459 RVVIEGQTVDFQC-EAKGNPPPIVAMTKGSQLSVDRRLVLSSTGLR--ISGVALHDQ- 514  
QY 189 NGTLTCVATWKSLLKARKSATVNLTV-----IRCPDT---GGGINIPGVLSLPSL 236  
DB 515 -QGYEQAV--NIGSQKVVAHLTVQPRTPVPFASIPSDTTVEVGANVQLP-----CSSQ 566  
QY 237 GFSLP--TWGKVGGLG--AGTMLLTPCTTLTI-----RCCCRRCRCG 275  
DB 567 GEPEPATNNKQGVQVTEGSKFHISPEGFLTTINDVGPADAGRECVARNITIG 618

## RESULT 15

US-10-211-462-87  
; Sequence 87, Application US/10211462  
; Publication No. US20040033495A1  
; GENERAL INFORMATION:  
; APPLICANT: Murray, Richard  
; APPLICANT: Glynn, Richard  
; APPLICANT: Watson, Susan R.  
; APPLICANT: Aziz, Natsasha  
; APPLICANT: EOS Biotechnology, Inc.  
; TITLE OF INVENTION: Methods of Diagnosis of Angiogenesis, Compositions and  
; TITLE OF INVENTION: Methods of Screening for Angiogenesis Modulators  
; FILE REFERENCE: 018501-006200US  
; CURRENT APPLICATION NUMBER: US/10/211,462  
; CURRENT FILING DATE: 2003-02-13  
; PRIOR APPLICATION NUMBER: US 09/784,356  
; PRIOR FILING DATE: 2001-02-14  
; PRIOR APPLICATION NUMBER: US 09/791,390  
; PRIOR FILING DATE: 2001-02-22  
; PRIOR APPLICATION NUMBER: US 60/310,025  
; PRIOR FILING DATE: 2001-08-03

;  
; PRIOR APPLICATION NUMBER: US 60/334,244  
; PRIOR FILING DATE: 2001-11-29  
; NUMBER OF SEQ ID NOS: 230  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 87  
; LENGTH: 1496  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-211-462-87

Query Match 6.5%; Score 135; DB 15; Length 1496;  
Best Local Similarity 25.0%; Pred. No. 0.075;  
Matches 73; Conservative 36; Mismatches 127; Indels 56; Gaps 15;

QY 13 GSGSGNEVIEGPNATVTKSQARFNCVS-QGWKLIMMALSDMNVLSVRPMEPIITNDR 71  
DB 354 GSPARPTFVIOPTNTEVLVGSVTLBESATGHPPPRISWTRGDRTPLPVDPRVNIPTPS-- 411  
QY 72 FTSQRYDQGNFTSEMIHNVEPSDSGNIRCLONS--RLHGSAYLTVQVMGELFIPSVN 129  
DB 412 -----GG-----LYIQNVVQDSDGSEYACSAATNNIDSVHATRAFIYQALPQFTVTPQD 458  
QY 130 LVVAENEPCEVTCUPSHWTRLPDISW-ELGLVSHSSYFVPEPSDLQSAVSIILATPQS 188  
DB 459 RVVIEGQIVDFQC-EAKGNPPVIAWTKGGSQLSVDRRHVLSSGTLR--ISGVALHDQ 514  
QY 189 NGTLTCVATWKSILKARKSATVNLTV-----IRCPQDT---GGGINIPGVLSLPSL 236  
DB 515 -GQYECQAV--NIIGSQKVAHLTVQPRVTPVFASIPSDITTVVGVANVQLP-----CSSQ 566  
QY 237 GFSLP--TWGKVLGL--AGTMLITPTCTULTI-----RCCCCRRCCG 275  
DB 567 GEPEPALTWNKDGQVETSGKFHISPEGFLTINDVGFPADAGRYECVARNVIG 618

Search completed: February 22, 2005, 19:55:34  
Job time : 75.253 secs